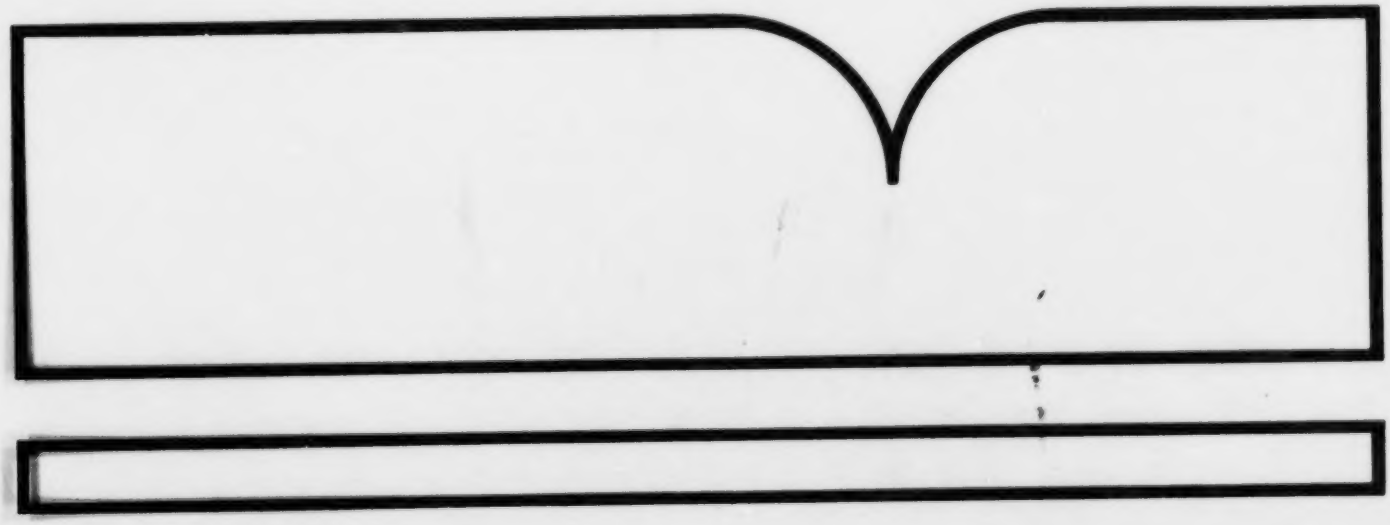
PB82-233032

National Emissions Data System (NEDS) Source Classification Code and Emission Factor Listing

(U.S.) Environmental Protection Agency
Research Triangle Park, NC

Jan 79



U.S. Department of Commerce
National Technical Information Service
NTIS

TECHNICAL REPORT DATA
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1. REPORT NO.	2.	3. RECIPIENT'S ACCESSION NO. PB82 233032
4. TITLE AND SUBTITLE: National Emissions Data System (NEDS) Source Classification Code and Emission Factor Listing		5. REPORT DATE: January 1979 6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S): (with errata)		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT NO. 11. CONTRACT/GRANT NO.
12. SPONSORING AGENCY NAME AND ADDRESS: EPA, OAQPS, Research Triangle Park, N.C. 27711		13. TYPE OF REPORT AND PERIOD COVERED 14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES

16. ABSTRACT

The NEDS Source Classification Code (SCC) and Emission Factor Listing replaces the one dated December 1975, which appeared in AP-42, Supplement 5 and in AEROS Volume V, Section 3, Chapter 7. Also included are two auxillary tables for use by persons involved in the preparation of NEDS or NEDS-compatible data. The contents of this document are as follows:

Appendix A: Recommended Method for entering source of volatile organic compound emissions into NEDS.

Appendix B: Source Classification Codes deleted from or added to the December 1975 list.

Appendix C: NEDS SSC and Emission Factor Listing.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
National Emissions Data System (NEDS) Source Classification Codes Emission Factor Listing		EPA 68A

18. DISTRIBUTION STATEMENT	19. SECURITY CLASS *(This Report)*	21. NO. OF PAGES
	20. SECURITY CLASS *(This page)*	22. PRICE

EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

PB82-233032

NATIONAL EMISSIONS DATA SYSTEM (NEDS)

SOURCE CLASSIFICATION CODE

AND

EMISSION FACTOR LISTING

U.S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Monitoring and Data Analysis Division
National Air Data Branch

January 1979

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

PB82 233032

ERRATA

NEDS SCC and Emission Factor Listing

Please make the changes indicated below to your copy to include the corrections noted.

Page	
B-7, B-8	The following codes are not new. They were in the December 1975 listing. They should be crossed off the list in Table B-2. 3-01-012-02 3-01-120-01 3-01-120-02 3-04-003-05 3-04-007-15 3-05-014-10 3-06-008-05
B-9	Correct the entries in the last column as below: 3-05-001-07 should be 3-01-005-07 3-05-001-08 should be 3-01-005-08 3-04-006-07 should be 3-04-004-07 3-04-006-09 should be 3-04-004-09
C-ii	In the paragraph describing SCC, the last sentence should be changed as follows: In NEDS, a maximum of 10 SCC's for any emission point are allowed. No two SCC's for a given point may be identical.
C-iii	The last sentence under General Organization of Listing, which begins "The alphabetic index.." should be deleted. No alphabetic index of SCC categories has been included in the listing.
C-iii	Emissions Calculation, the third sentence should be modified to read as follows: No calculations using emission factors are attempted. If the estimation method code is 3 or blank, emission factor calculations are used.
C-vi	The enclosed table of contents for Part I should be inserted as page C-vi.

C-4 Emission factors for SCC 1-02-004-01 should be as follows:

PART	SOX	NOX	HC	CO
12.0 S[1]	159.0 S	60.0	1.00	5.00

C-51 For SCC 4-03-011-05, process description should read "Gasoline RVP 10: Standing Loss"

C-74 For SCC 4-06-002-50 process description should read "Kerosene - Loading Barges."

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*THESE SCC CATEGORIES ARE APPLICABLE TO A WIDE VARIETY OF PROCESSES AND THUS ARE GROUPED TOGETHER.

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External Combustion Boilers - Commercial/Institutional	C-6
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U.S. Environmental Protection Agency
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Monitoring and Data Analysis Division
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January 1979

PREFACE

The enclosed NEDS Source Classification Code (SCC) and Emission Factor Listing replaces the one dated December 1975, which appeared in AP-42, Supplement 5 and in AEROS Volume V, Section 3, Chapter 7. Also included are two auxillary tables for use by persons involved in the preparation of NEDS or NEDS-compatible data. The contents of this document are as follows:

Appendix A: Recommended Method for Entering Source of Volatile Organic Compound Emissions into NEDS.

Appendix B: Source Classification Codes Deleted From or Added to the December 1975 List.

Appendix C: NEDS SCC and Emission Factor Listing

The new NEDS SCC listing has been modified to incorporate the following changes:

1. The listing has been reformatted to eliminate most abbreviations, add clarifying notes and improve general readability.

2. The listing has been rearranged to list together, in Part I, SCC's that are common to a large number of industries. To the extent possible, general codes ending in 99 and other unnecessary or inappropriate SCC's have been eliminated from the source categories included in Part I. SCC's that are unique to specific industries are included in Part II. To facilitate the finding of appropriate SCC's as well as to relate SCC's to Standard Industrial Classifications used in many other Federal data bases, Part II is arranged in order according to SIC. For each industrial category appropriate SIC's and SCC's are indicated. The alphabetic indices of industries given in the 1972 Standard Industrial Classification Manual may be used as an auxillary reference in determining correct SCC and SIC codes.

3. The SCC's and emission factors have been reviewed and updated to include all AP-42 changes through AP-42 Supplement 8. In addition all SCC's have been cross-checked against existing AP-42 sections and any incompatibilities between AP-42 and the SCC emission factors have been eliminated whenever possible.

4. Some additional SCC's have been added to the listing based on AP-42 updates, requests received from State and local NEDS users, and our internal review. We are also preparing detailed process descriptions and coding guidelines for about 40 industrial categories for NEDS and EIS/P&R users. When completed, these so-called "process compendia" will provide explicit coding instructions and source background information to assist in proper recording of NEDS and EIS/P&R data. We expect to complete this document by mid-1979. As a result of this activity new SCC's are being determined. Some new SCC's have already been included in the enclosed listing based on process compendia completed to date. In these cases SCC's ending in 99 have been eliminated since specific SCC's have been assigned for all sources. If in your review of the listing you find that you have a need for additional SCC's for any source category please so indicate by writing to us or use the SCC Initiation Form shown in AEROS Volume II, Section 3.1.3, if convenient.

5. A number of SCC's that appeared in previous SCC listings have been dropped from the revised listing. SCC's have been dropped because they were found to not ever have been used, were made obsolete as the result of revised process definitions available from AP-42 to process compendia, or were determined to be otherwise inappropriate or unnecessary.
   Please refer to Appendix B for details.

If you have questions concerning the use of this listing, please contact Chuck Mann or John Bosch at the address below. Also, a videocassette tape describing the listing is being prepared. To receive additional copies of the listing or to obtain the videocassette tape, please contact Betty Abramson at the same address.

Requests and Information Section
National Air Data Branch (MD-14)
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711
Phone: (919) 541-5395 (FTS) 629-5395.

APPENDIX A

RECOMMENDED METHOD FOR ENTERING SOURCES OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS INTO THE NATIONAL EMISSIONS DATA SYSTEM

The purpose of this document is to enable State and local air pollution control agencies to properly identify sources of volatile organic compounds (VOC's) in their emission inventories. The new NEDS SCC listing (Appendix C) provides a complete listing of all applicable Source Classification Codes and related Standard Industrial Classification (SIC) codes.

The attached table defines the correct combinations of (SCC & SIC) codes that must be used in identifying sources of VOC emissions, and reporting them to NEDS. For each of the major VOC emission source categories, the applicable SIC and SCC are listed. The attached table is intended to be a quick reference document to be used in conjunction with Appendix C. The user should identify the VOC emission source category applicable to the point source in question, determine which SIC/SCC combination is correct, and locate the SCC's, emission factors, and emission factor units in Appendix C. VOC source categories that are treated as area sources in NEDS are so noted. No point source data should be recorded for source categories that are treated only as area sources. For source categories that may be treated either as point or area sources, applicable SIC and SCC codes are shown for reporting of point sources.

PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
PETROLEUM REFINERIES			
Fugitive Emissions (Leaks)	2911	3-06-008-XX	Includes valves, seals, miscellaneous
Process Drains and Wastewater Separators	2911	3-06-005-XX	
Vacuum-Producing Systems	2911	3-06-006-XX	
Process Unit Blowdown	2911	3-06-004-XX	
Other Fugitive Emissions	2911	3-06-888-01	
Other Sources	2911	3-06-001-XX, 3-06-002-01, 3-06-003-01, 3-06-007-XX	Includes process heaters, catalytic cracking units, and cooling towers
STORAGE, TRANSPORTATION AND MARKETING OF PETROLEUM PRODUCTS			
Oil and Gas Production Fields	1311	3-10-001-99 2-02-XXX-XX	3-10-XXX-XX codes cover process sources only. For internal combustion engines, use 2-02-XXX-XX codes.
Natural Gas Processing Plants	1321	3-10-002-XX 2-02-XXX-XX	Includes condensate processing, sweetening, drying of natural gas/ natural gas liquids

[1] SCC ending in -XX indicates multiple SCC's may apply. Select the proper SCC's from the NEDS SCC and Emission Factor listing.

PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
Gasoline and Crude Oil Storage	2911, 2992, 1311, 1321	4-03-010-XX 4-03-011-XX 4-03-012-XX	Includes refinery/petrochemical plant storage, oil/gas field storage
Ship, Barge Transfer of Gasoline and Crude Oil	4463	4-06-002-XX 4-06-002-XX	
Bulk Gasoline Terminals	5171, 4226	4-04-001-XX	Gasoline storage in terminals w/daily throughput of 76,000 liters (20,000 gallons) or more
Bulk Gasoline Plants	5171, 4226	4-04-002-XX	Gasoline storage in plants w/daily throughput less than 76,000 liters (20,000 gallons)
Service Station Loading (Stage I)	5541	4-06-003-XX	Delivery of gasoline to service stations from tank trucks. Normally service stations will be accounted for as area sources in NEDS.
Service Station Unloading (Stage II)	5541	4-06-004-XX	Includes filling of vehicle gas tanks
Petroleum Market, Transportation Fugitives	5571, 4226, 5541, 4463	4-06-888-01	Includes fugitive emissions uncharacterized by SCC

[1] SCC ending in -XX indicates multiple SCC's may apply. Select the proper SCC's from the NEDS SCC and Emission Factor listing.

PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
INDUSTRIAL PROCESSES			
Organic Chemical Manufacture, Process Streams			
Charcoal Manufacture	2861	3-01-006-XX	
Phthalic Anhydride	2865	3-01-019-XX	
Adipic Acid	2869	3-01-001-XX	
Lead Alkyls	2869	3-01-042-XX 3-01-043-XX	
Carbon Black	2895	3-01-005-XX	
Olefins Production	2869	3-01-197-XX	Includes Production of Ethylene, Propylene, and co-products
Aromatics Production	2865, 2869	3-01-258-XX	Includes production of benzene, toluene, xylene, ethylbenzene by extraction or reaction
Alcohols	2869	3-01-250-XX	
Nitriles	2869	3-01-254-XX	
Esters	2869	3-01-137-99 3-01-167-99	

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PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
Amines/Amides	2869	3-01-034-01	
Ketones	2869	3-01-091-XX	
Aldehydes	2869	3-01-120-XX	
Maleic Anhydride	2869	3-01-100-XX	
TPA/DMT	2869	3-01-031-XX	
Organo Halogens	2869	3-01-125-XX	
Organic Acids	2869	3-01-132-XX	
Organic Chemicals, Other	2869, 2865	3-01-999-99	
Organic Chemical Manufacture Storage and Handling	2865, 2869	See remarks.	Petrochemical storage tanks can be properly coded using the applicable SCC's under petroleum product storage.
Organic Chemical Manufacture, Waste Disposal - Waste Gas Flares	2865, 2869	3-01-900-99	Specify liquid stored in comment.
Organic Chemical Manufacture, Fugitive Emissions	2865, 2869	3-01-888-01	
Paint Manufacture	2851	3-01-014-XX 3-01-015-XX	Includes varnish and paint

[1] SCC ending in -XX indicates multiple SCC's may apply. Select the proper SCC's from the NEDS SCC and Emission Factor listing.

PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
Vegetable Oil Processing	2074, 2075, 2076, 2079, 2046	3-02-019-XX	
Pharmaceutical Manufacture	283X	3-01-060-99	
Plastics Production	2821	3-01-018-XX	Includes only production of polymer resins, etc. (No fabrication of plastic goods.)
Plastic Products Manufacture	3021, 3041, 3079	3-08-007-99	Includes fabrication of plastic products
Synthetic Rubber Production	2822	3-01-026-XX	Includes only production of raw rubber. (No fabricated products.)
Rubber Products Manufacture	3011, 3021, 3069, 2241	3-30-002-XX 3-08-001-99 3-08-006-99	Includes fabrication of rubber products
Textile Polymers Manufacture	2823, 2824	3-01-025-XX 3-01-024-XX	Includes manufacture of synthetic fibers
Printing Ink Manufacture	2893	3-01-020-XX	
Other Industrial Processes	No specific SIC.	See remark.	See SCC and emission factor listing for applicable SCC.

[1] SCC ending in -XX indicates multiple SCC's may apply. Select the proper SCC's from the NEDS SCC and Emission Factor listing.

PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
Industrial Surface Coating			
Large Appliances	3479, 3631 3632, 3633	4-02-XXX-XX	4-02-XXX-XX SCC's apply to all surface coating categories. Be sure to indicate applicable SIC to distinguish between industrial surface coating categories. Specific additional information in comments if necessary.
Magnet Wire	3479, 3496, 3499	4-02-XXX-XX	
Automobiles	3711, 3713, 3714, 3715	4-02-XXX-XX	
Cans	3411, 3412	4-02-XXX-XX	
Metal Coils	3471, 3479	4-02-XXX-XX	
Paper	2641, 3955, 3861	4-02-XXX-XX	
Fabric	2261, 2262, 2269, 2295	4-02-XXX-XX	
Metal Furniture	2514, 2522, 2542, 2599	4-02-XXX-XX	
Wood Furniture	2434, 2511, 3512, 2517, 2521, 2541, 2599	4-02-XXX-XX	

[1] SCC ending in -XX indicates multiple SCC's may apply. Select the proper SCC's from the NEDS SCC and Emission Factor listing.

PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
Flat Wood Products	2431, 2435, 2436, 2492	4-02-XXX-XX	
Other Metal Products	3400 thru 3999	4-02-XXX-XX	
NON-INDUSTRIAL SURFACE COATING			
Architectural Coatings	1500 thru 1799	4-02-XXX-XX	Normally, emissions from these categories will be included in NEDS as area emissions
Auto Refinishing	7531, 7535	4-02-XXX-XX If applicable	May be included as area source of emissions
Other	No Specific SIC	4-02-XXX-XX	
OTHER SOLVENT USE			
Degreasing	No Specific SIC	4-01-002-XX	
Dry Cleaning	7216	4-01-001-XX	
Graphic Arts	2700 thru 2799, 7351	4-05-XXX-XX	
Adhesives	2641, 3842	4-02-007-01	Surface coating with adhesives
Cutback Asphalt	Area source	Area source	Not applicable as point source
Other Solvent Use	No specific SIC	4-90-999-99	

[1] SCC ending in -XX indicates multiple SCC's may apply. Select the proper SCC's from the NEDS SCC and Emission Factor listing.

PROCEDURE FOR RECORDING SOURCES OF VOC EMISSIONS IN THE NEDS POINT SOURCE FILE

VOLATILE ORGANIC COMPOUND EMISSION SOURCE CATEGORY	STD INDUSTRIAL CLASSIFICATION (SIC)	NEDS SOURCE CLASSIFICATION CODE (SCC)[1]	REMARKS
OTHER MISCELLANEOUS SOURCES			
Fuel Combustion	No specific SIC	1-XX-XXX-XX 2-XX-XXX-XX 3-90-XXX-XXX If applicable	Fuel combustion and solid waste sources will also be present as area sources in NEDS
Solid Waste Disposal	No specific SIC	5-XX-XXX-XX If applicable	
Forest, Agricultural, and other open burning	Area Source	Area Source	Not applicable as point sources.
MOBILE SOURCES			
Highway Vehicles	Area Source	Area Source	Not applicable as point sources. Area source data may be optionally reported. See AEROS Volume II, Section 3.1.1 for details.
Off-Highway Vehicles	Area Source	Area Source	
Rail	Area Source	Area Source	
Aircraft	Area Source	Area Source	
Vessels	Area Source	Area Source	

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1 SCC ending in -XX indicates multiple SCC's may apply. Select the proper SCC's from the NEDS SCC and Emission Factor listing

APPENDIX B

SOURCE CLASSIFICATION CODES DELETED FROM OR ADDED TO THE DECEMBER 1975 SCC LIST

The following tables are provided for use in cross-referencing the new SCC listing with the previous December 1975 listing that appeared in AP-42, Supplement 5, and AEROS Volume V.

Table B-1 lists all the SCCs that appeared in the December 1975 listing, but have been dropped from the new listing. The SCCs listed in Table B-1 should not be used in the preparation of new source data. These SCCs are all replaced by new or existing SCCs that appear in Appendix C or represent SCCs that were improperly designated and should not have been used in any case. It is not necessary for any agency to change existing data in their file to eliminate SCCs appearing in Table B-1. The NEDS update edit procedures will continue to accept data with these obsolete SCCs and these SCCs will remain in the NEDS SCC and emission factor file to be used in emission calculations. In some instances, it would be beneficial to change SCCs to eliminate the obsolete codes appearing in Table B-1. Agencies who at their option, wish to do so and need further information should contact the Requests and Information Section, NADB (John Bosch or Chuck Mann). Users of the EIS/P&R system will be receiving more detailed instructions on this subject.

Table B-2 provides a quick reference to new SCCs added to the December 1975 list. Users should refer to Appendix C for a complete description of these new SCCs. These SCCs were added mainly as a result of AP-42 revisions, suggestions received from state and local agencies, and internal review activities. In many cases, these new codes replace the deleted codes that are included in Table B-1.

TABLE B-1

SCC CODES DELETED FROM

THE DECEMBER 1975 LIST

A. The following "-99" codes for External Combustion Boilers were deleted because specific boiler codes are available.

1-01-001-99	1-02-001-99	1-03-001-99	1-05-001-97
1-01-002-99	1-02-002-99	1-03-002-99	1-05-001-98
1-01-999-97	1-02-999-97	1-03-999-97	1-05-001-99
1-01-999-98	1-02-999-98	1-03-999-98	1-05-002-97
1-01-999-99	1-02-999-99	1-03-999-99	1-05-002-98
			1-05-002-99

B. The following codes for External Combustion Boilers were deleted to accomodate elimination of the boiler capacities/throughputs in the process description.

1-01-001-03	1-02-001-02	1-02-004-02	1-03-002-08
1-01-001-04	1-02-001-03	1-02-004-03	1-03-002-10
1-01-001-05	1-02-001-05	1-02-005-02	1-03-002-12
1-01-001-06	1-02-001-06	1-02-005-03	1-03-002-13
1-01-002-06	1-02-002-06	1-02-007-02	1-03-002-14
1-01-002-07	1-02-002-07	1-02-007-03	1-03-003-06
1-01-002-08	1-02-002-08	1-02-007-05	1-03-003-08
1-01-002-09	1-02-002-09	1-02-007-06	1-03-003-10
1-01-002-10	1-02-002-11	1-02-007-08	1-03-003-11
1-01-002-11	1-02-002-12	1-02-007-09	1-03-003-12
1-01-002-12	1-02-002-13	1-02-008-03	1-03-003-13
1-01-003-02	1-02-002-14	1-02-010-03	1-03-003-14
1-01-003-05	1-02-003-02	1-02-011-02	1-03-004-02
1-01-003-07	1-02-003-05	1-02-011-03	1-03-004-03
1-01-003-08	1-02-003-07	1-02-012-02	1-03-005-02
1-01-003-09	1-02-003-08	1-02-012-03	1-03-005-03
1-01-003-10	1-02-003-09	1-02-013-03	1-03-007-02
1-01-003-11	1-02-003-10	1-03-001-05	1-03-007-03
1-01-003-12	1-02-003-11	1-03-001-06	1-03-010-03
1-01-003-13	1-02-003-12	1-03-001-07	1-03-012-02
1-01-003-14	1-02-003-13	1-03-001-08	1-03-012-03
1-01-003-15	1-02-003-14	1-03-001-09	1-03-013-03
1-01-011-02	1-02-003-15	1-03-001-10	
1-01-011-03	1-02-003-16		
1-01-012-02			
1-01-012-03			
1-01-013-03			
1-01-004-02			
1-01-004-03			
1-01-005-02			
1-01-005-03			

C. The following codes for External Combustion Boilers were deleted because they represent processes that are not encountered in actual practice.

1-01-006-03	1-05-001-01	1-05-002-01
1-01-007-03	1-05-001-02	1-05-002-02
	1-05-001-03	1-05-002-03
	1-05-001-04	1-05-002-04

D. The following "-99" codes for Internal Combustion processes were deleted because specific codes are available.

2-01-999-97	2-03-999-97
2-01-999-98	2-03-999-98
2-02-999-97	2-04-999-97
2-02-999-98	2-04-999-98
	2-04-999-99

E. The following codes for Internal Combustion processes were deleted to eliminate the duplication between codes for diesel fuel and distillate oil.

2-01-003-01	2-02-004-01
2-01-003-02	2-02-004-02

F. The following codes for Internal Combustion processes were deleted to make the listing more consistent with recent AP-42 Supplements or because they represent processes that do not exist in actual practice.

2-01-004-01	2-02-005-01
2-01-005-01	2-02-006-01
2-01-006-01	2-02-007-01
2-01-007-01	2-02-008-01
	2-02-008-02
	2-04-002-01

G. The following ".99" codes for Industrial Processes were deleted because specific process codes are available or because duplications between "General" and "Other/Not Classified" codes has been eliminated.

3-01-001-99	3-01-030-99	3-03-010-99	3-05-016-99
3-01-003-99	3-01-032-99	3-03-012-99	3-05-020-99
3-01-004-99	3-01-041-99	3-03-015-99	3-05-023-99
3-01-005-99	3-01-090-99	3-03-025-99	3-05-025-99
3-01-007-99	3-01-111-99	3-03-026-99	3-06-009-99
3-01-008-99	3-02-001-99	3-03-030-99	3-06-011-99
3-01-010-99	3-02-004-99	3-04-001-99	3-06-999-98
3-01-011-99	3-02-006-99	3-04-011-99	3-06-999-99
3-01-012-99	3-02-007-99	3-05-001-99	3-07-002-99
3-01-013-99	3-02-008-99	3-05-002-99	3-07-004-99
3-01-016-99	3-02-009-98	3-05-003-99	3-07-009-99
3-01-017-99	3-02-009-99	3-05-004-99	3-07-010-99
3-01-020-99	3-02-010-99	3-05-006-99	3-07-999-99
3-01-023-99	3-02-012-99	3-05-007-99	3-09-010-99
3-01-024-99	3-03-001-99	3-05-014-99	3-09-020-99
3-01-025-99	3-03-003-99	3-05-015-99	3-09-030-99
	3-03-008-99		

H. The following codes for Industrial Processes were deleted to accomodate new codes having more accurate process descriptions or because they represent processes that are not encountered in actual practice.

3-01-002-02
3-01-003-03
3-01-004-01
3-01-005-05
3-01-007-01
3-01-009-10
3-01-010-01
3-01-010-02
3-01-010-03
3-01-010-04
3-01-010-05
3-01-010-06
3-01-011-02
3-01-012-01
3-01-013-05
3-01-013-06
3-01-013-07
3-01-013-08
3-01-014-02
3-01-017-01
3-01-019-03
3-01-024-03
3-01-024-04
3-01-024-06
3-01-024-08
3-01-024-12
3-01-025-10
3-01-026-03
3-01-026-04
3-01-026-05
3-01-026-06
3-01-026-07
3-01-026-09
3-01-026-20
3-01-027-01
3-01-027-02
3-01-027-03
3-01-034-01
3-01-036-01
3-01-036-02

3-01-037-01
3-01-037-02
3-01-038-01
3-01-039-01
3-01-050-01
3-01-100-01
3-01-101-01
3-01-110-01
3-01-111-01
3-01-111-02
3-01-111-03
3-01-111-04
3-01-130-01
3-01-130-02
3-01-130-03
3-02-001-01
3-02-005-01
3-02-005-02
3-02-006-01
3-02-006-02
3-02-007-01
3-02-007-02
3-02-007-06
3-02-007-30
3-02-008-01
3-02-011-01
3-02-015-01
3-02-017-20
3-03-003-01
3-03-005-01
3-03-006-12
3-03-008-03
3-03-008-04
3-03-008-05
3-03-008-06
3-03-008-07
3-03-009-03
3-03-009-20

3-03-015-01
3-03-015-02
3-03-015-03
3-03-015-04
3-03-015-05
3-03-015-06
3-03-015-07
3-03-015-08
3-03-015-09
3-03-025-01
3-03-025-02
3-03-025-03
3-03-025-04
3-03-025-05
3-03-025-06
3-03-025-07
3-03-025-08
3-03-025-09
3-03-026-01
3-03-026-02
3-03-026-03
3-03-026-04
3-03-026-05
3-03-026-06
3-03-030-01
3-03-030-04
3-04-002-01
3-04-002-02
3-04-002-03
3-04-002-04
3-04-002-05
3-04-002-06
3-04-003-30
3-04-007-10
3-04-008-04
3-04-008-08
3-04-011-01
3-05-001-02
3-05-001-03
3-05-001-04

3-05-003-04
3-05-003-05
3-05-003-06
3-05-006-01
3-05-006-02
3-05-006-03
3-05-006-04
3-05-006-05
3-05-007-01
3-05-007-02
3-05-007-03
3-05-007-04
3-05-007-05
3-05-011-21
3-05-014-01
3-05-014-11
3-05-014-12
3-05-023-01
3-06-001-01
3-06-001-02
3-06-005-01
3-06-005-02
3-06-006-01
3-06-009-01
3-06-012-02
3-06-012-03
3-06-012-04
3-06-013-01
3-07-002-01
3-07-002-02
3-07-002-04
3-07-002-05
3-07-002-06
3-07-006-01
3-09-001-01
3-09-001-02
3-09-030-01
3-09-030-02
3-09-030-03
3-09-030-04
3-09-030-05
3-09-030-06

I. The following codes for In-Process Fuels were deleted to allow for reorganization of these codes into a more useful format.

3-90-002-03	3-90-004-11	3-90-005-10	3-90-006-09
3-90-002-04	3-90-004-30	3-90-005-11	3-90-006-10
3-90-002-06	3-90-004-31	3-90-005-30	3-90-006-11
3-90-002-07	3-90-004-32	3-90-005-31	3-90-006-30
3-90-002-08	3-90-004-50	3-90-005-32	3-90-006-31
3-90-002-09	3-90-004-51	3-90-005-50	3-90-006-32
3-90-004-01	3-90-004-52	3-90-005-51	3-90-006-50
3-90-004-03	3-90-005-01	3-90-005-52	3-90-006-51
3-90-004-04	3-90-005-03	3-90-006-01	3-90-006-52
3-90-004-05	3-90-005-04	3-90-006-03	3-90-008-01
3-90-004-06	3-90-005-05	3-90-006-04	3-90-999-97
3-90-004-07	3-90-005-06	3-90-006-05	3-90-999-98
3-90-004-08	3-90-005-07	3-90-006-06	3-90-999-99
3-90-004-09	3-90-005-08	3-90-006-07	3-99-999-99
3-90-004-10	3-90-005-09	3-90-006-08	

J. The following "-99" codes for Point Source Evaporation processes were deleted because specific codes are available.

4-01-001-99	4-02-006-99	4-03-002-99	4-06-001-97
4-01-999-99	4-02-007-99	4-03-003-99	4-06-001-98
4-02-001-99	4-02-008-99	4-03-999-99	4-06-001-99
4-02-003-99	4-02-999-99	4-04-001-99	4-06-002-98
4-02-004-99	4-03-001-98	4-05-002-99	4-06-002-99
4-02-005-99	4-03-001-99	4-05-003-99	4-06-003-99
		4-05-004-99	4-06-004-99

K. The following codes for Point Source Evaporation processes were deleted to accomodate; (1) changes in units (2) updating the process descriptions to be more consistent with recent AP-42 Supplements and Process Compendia, or (3) elimination of redundant codes.

4-01-001-01	4-02-006-02	4-03-001-11	4-03-002-03
4-01-001-02	4-02-006-03	4-03-001-12	4-03-002-04
4-02-001-02	4-02-006-04	4-03-001-13	4-03-002-05
4-02-001-03	4-02-006-05	4-03-001-14	4-03-002-06
4-02-001-04	4-02-007-02	4-03-001-15	4-03-002-07
4-02-001-05	4-02-007-03	4-03-001-16	4-03-002-08
4-02-003-02	4-02-007-04	4-03-001-50	4-03-002-09
4-02-003-03	4-02-007-05	4-03-001-51	4-03-002-10
4-02-003-04	4-02-008-02	4-03-001-52	4-93-002-11
4-02-003-05	4-02-008-03	4-03-001-53	4-03-002-12
4-02-004-02	4-03-001-01	4-03-001-54	4-03-002-13
4-02-004-03	4-03-001-02	4-03-001-55	4-03-002-14
4-02-004-04	4-03-001-03	4-03-001-56	4-03-002-15
4-02-004-05	4-03-001-04	4-03-001-57	4-03-002-16
4-02-004-06	4-03-001-05	4-03-001-58	4-03-003-02
4-02-004-07	4-03-001-06	4-03-001-59	4-03-003-03
4-02-005-02	4-03-001-07	4-03-001-60	4-03-003-04
4-02-005-03	4-03-001-08	4-03-001-61	4-03-003-05
4-02-005-04	4-03-001-09	4-03-002-01	4-03-003-06
4-02-005-05	4-03-001-10	4-03-002-02	4-03-003-07

K. (Contd.)

4-03-003-08	4-05-005-08	4-06-001-30	4-06-002-03
4-03-003-09	4-05-005-09	4-06-001-51	4-06-002-04
4-03-003-10	4-06-001-01	4-06-001-52	4-06-002-05
4-03-003-11	4-06-001-02	4-06-001-53	4-06-002-26
4-03-003-12	4-06-001-03	4-06-001-54	4-06-002-27
4-03-003-13	4-06-001-04	4-06-001-55	4-06-002-28
4-03-003-14	4-06-001-05	4-06-001-97	4-06-002-29
4-05-004-02	4-06-001-26	4-06-001-98	4-06-002-30
4-05-004-03	4-06-001-27	4-06-001-99	4-06-003-03
4-05-005-04	4-06-001-28	4-06-002-01	4-06-003-04
4-05-005-05	4-06-001-29	4-06-002-02	4-06-003-05

L. The following "-99" codes for Solid Waste processes were deleted because specific codes are available.

5-01-005-99	5-02-005-99	5-03-005-99
5-01-900-97	5-02-900-97	5-03-900-97
5-01-900-98	5-02-900-98	5-03-900-98
5-01-900-99	5-02-900-99	5-03-900-99

M. The following codes for Solid Waste processes were deleted because they represent processes that do not exist in actual practice or duplicate other codes.

5-01-002-03	5-03-004-01
5-01-900-04	5-03-900-04
5-02-900-04	5-03-900-07
5-03-003-01	
5-03-003-02	

N. The following codes for Miscellaneous - Federal Non-Emitters were deleted to be consistent with current Federal policy.

6-01-999-98
6-01-999-99

TABLE B-2

SCC CODES ADDED TO

THE DECEMBER 1975 LIST

A. The following codes have been added to Part I.

1-01-004-04
1-01-004-05
1-01-004-06
1-01-005-04
1-01-005-05
1-01-006-04
1-02-004-04
1-02-005-04
1-03-001-01
1-03-001-02
1-03-001-03
1-03-004-04
1-03-005-04
2-01-009-01
2-01-009-02
2-02-009-01
2-02-009-02
2-03-002-01
2-03-003-01
3-90-003-99
3-90-007-97
3-90-007-98
3-90-012-99
3-90-013-99
4-01-002-07
4-02-009-25
4-02-009-26
4-02-010-01
4-02-010-02
4-02-010-03
5-01-005-08
5-03-001-08

B. The following codes have been added to Part II.

3-01-005-06
3-01-006-02
3-01-009-02
3-01-001-02
3-01-001-03
3-01-001-04
3-01-001-05
3-01-001-06
3-01-010-11
3-01-012-02
3-01-017-02
3-01-018-03
3-01-018-07
3-01-018-12
3-01-018-17
3-01-018-22
3-01-018-27
3-01-018-32
3-01-018-37
3-01-018-42
3-01-018-47
3-01-018-52
3-01-019-01
3-01-019-02
3-01-019-04
3-01-019-05
3-01-019-06
3-01-019-07
3-01-023-19
3-01-023-20
3-01-023-21
3-01-023-22
3-01-024-15
3-01-026-15
3-01-026-25
3-01-026-30
3-01-027-09
3-01-027-11
3-01-027-12
3-01-027-13
3-01-027-17
3-01-027-18
3-01-027-21
3-01-027-22
3-01-027-23
3-01-027-27
3-01-027-28
3-01-032-04
3-01-035-02
3-01-041-04
3-01-042-01
3-01-042-02
3-01-042-03
3-01-042-04
3-01-044-01
3-01-044-02
3-01-043-99
3-01-060-99
3-01-091-05
3-01-091-10
3-01-091-99
3-01-100-99
3-01-120-01
3-01-120-02
3-01-120-99
3-01-125-99
3-01-132-01
3-01-132-05
3-01-132-10
3-01-132-99
3-01-137-99
3-01-167-99
3-01-197-01
3-01-197-05
3-01-197-10
3-01-197-99
3-01-250-01
3-01-250-99
3-01-254-01
3-01-254-05
3-01-254-10
3-01-254-15
3-01-254-99
3-01-258-01
3-01-258-05
3-01-258-10
3-01-258-15
3-01-258-99
3-02-001-02
3-02-001-03
3-02-001-04
3-02-004-04
3-02-004-10
3-02-005-05
3-02-005-06
3-02-005-07
3-02-005-08
3-02-005-09
3-02-006-05
3-02-006-06
3-02-006-07
3-02-006-08
3-02-007-11
3-02-007-12
3-02-007-13
3-02-007-14
3-02-007-21
3-02-007-22
3-02-007-23
3-02-007-24
3-02-007-31
3-02-007-32
3-02-007-33
3-02-007-34
3-02-007-41
3-02-007-42
3-02-007-43
3-02-007-44
3-02-007-45
3-02-007-51
3-02-007-52
3-02-007-53
3-02-007-54
3-02-007-55
3-02-007-56
3-02-007-60
3-02-007-71
3-02-007-72
3-02-007-73

3-02-007-74
3-02-007-81
3-02-007-82
3-02-007-83
3-02-007-84
3-02-007-85
3-02-007-86
3-02-007-87
3-02-007-88
3-02-007-89
3-02-007-90
3-02-007-91
3-02-888-01
3-01-888-01
3-02-008-02
3-02-008-03
3-02-008-04
3-02-008-05
3-02-008-06
3-02-011-99
3-02-012-04
3-02-019-01
3-02-019-02
3-02-019-03
3-02-019-04
3-02-019-05
3-02-019-99
3-02-031-03
3-02-031-04
3-02-031-05
3-02-031-06
3-02-031-07
3-02-031-08
3-02-031-09
3-02-032-99
3-02-033-99
3-03-003-08
3-03-003-09
3-03-003-10
3-03-003-11
3-03-003-12
3-03-005-07
3-03-005-09
3-03-005-10
3-03-005-11
3-03-005-12
3-03-006-13
3-03-006-14
3-03-006-15
3-03-006-16
3-03-006-17
3-03-007-03
3-03-007-04
3-03-008-23
3-03-008-24
3-03-008-25
3-03-008-09
3-03-008-11
3-03-008-12
3-03-008-13
3-03-008-14
3-03-008-15
3-03-008-16
3-03-008-17
3-03-008-18
3-03-008-19
3-03-009-13
3-03-009-14
3-03-009-15
3-03-009-16
3-03-009-17
3-03-009-21
3-03-009-22
3-03-009-23
3-03-009-24
3-03-009-31
3-03-009-32
3-03-009-33
3-03-009-34
3-03-009-35
3-03-009-36
3-03-010-06
3-03-010-07
3-03-010-08
3-03-010-09
3-03-010-11
3-03-010-12
3-03-010-13
3-03-010-14
3-03-010-15
3-03-010-16
3-03-010-17
3-03-010-18
3-03-010-19
3-03-010-20
3-03-010-21
3-03-010-22
3-03-010-23
3-03-010-24
3-03-888-01
3-03-030-07
3-03-030-08
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3-04-002-11
3-04-002-12
3-04-002-14
3-04-002-15
3-04-002-17
3-04-002-19
3-04-002-20
3-04-002-21
3-04-002-23
3-04-002-24
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3-04-003-05
3-04-003-20
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3-04-003-60
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3-04-007-08
3-04-007-09
3-04-007-11
3-04-007-15
3-04-008-14
3-04-008-18
3-04-008-24
3-04-008-28
3-04-008-34
3-04-008-38
3-04-888-01
3-05-001-05
3-05-002-03
3-05-002-04
3-05-002-05
3-05-002-06
3-05-002-07
3-05-002-08
3-05-003-11
3-05-003-13
3-05-003-14
3-05-003-15
3-05-003-16
3-05-006-07
3-05-006-08
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3-05-012-06
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3-06-005-06
3-06-006-03
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4-03-011-02
3-07-007-03
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3-07-030-99
4-03-011-04
3-09-010-01
3-09-040-01
3-10-001-99
3-10-002-01
3-10-002-02
3-10-002-99
3-30-001-03
3-30-001-04
3-30-001-05
3-60-001-01
4-01-001-03
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4-03-010-01
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4-03-012-01
4-03-012-02
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4-03-012-99
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4-04-002-07
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4-04-002-12
4-04-002-13
4-06-002-57
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APPENDIX C

NEDS SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

The Source Classification Codes (SCC's) presented herein comprise the basic "building blocks" upon which the National Emissions Data System (NEDS) is structured. Each SCC represents a process or function within a source category logically associated with a point of air pollution emissions. In NEDS, any operation that causes air pollution can be represented by one or more of these SCC's. The SCC is the most critical NEDS data item since without an appropriate SCC, the source can neither be properly identified for retrieval purposes, nor the source emissions properly calculated.

Also presented herein are emission factors for the five NEDS pollutants (particulates, sulfur oxides, nitrogen oxides, hydrocarbons, and carbon monoxide) that correspond to each SCC. These factors are utilized in NEDS to automatically compute estimates of air pollutant emissions associated with a process when a more accurate estimate is not supplied to the system. These factors are, for the most part, taken directly from AP-42. In certain cases, however, they may be derived from better information not yet incorporated into AP-42 or be based merely on the similarity of one process to another for which emissions information does exist.

The SCC listing is designed for use by persons responsible for preparation of NEDS or NEDS-compatible point source data such as in the EIS/P&R or other state-designated data formats. This listing serves as the primary reference for identification of SCC's and as a secondary source for Standard Industrial Classification (SIC) codes. The following general conventions apply with regard to interpretation of this listing. Other comments or footnotes that refer to specific processes appear in the body of the listing.

SCC: An SCC defines a process activity that causes air pollutant emissions. Normally, emission factors are associated with SCC's to allow emissions calculation (see below). In many cases, processes included in a defined point of emissions are adequately described by a single SCC. In other cases, mutiple SCC's may be required to define all pollution-producing processes at an emission point. In NEDS, a maximum of 10 SCC's for any emission point may be identical.

SIC: The SIC defines a unit of economic activity in general terms, i.e., generation of electricity, petroleum refining, etc. Normally, an SIC code applies to an entire facility. Thus, the same SIC should normally be recorded for all emission points within a facility. SIC's are defined in the Standard Industrial Classification Manual, 1972, published by the Office of Management & Budget.

General Organization of Listing: The listing is divided into two parts. Part I includes SCC's common to a wide variety of industrial activities (except for electric utility boilers, SIC 4911, and municipal refuse disposal, SIC 4953, which relate to specific SIC categories). Part I covers all processes related to fuel combustion, solid waste disposal, and general use of organic solvents in degreasing and surface coating operations. Part II identified SCC's relating to specific industrial processes. Part II is arranged in order according to SIC. The SIC major group is indicated at the top of each page. Specific SIC's and SCC's are indicated in order by SIC. In some cases, an SCC or set of SCC's may be commonly

associated with more than one SIC. In these cases, multiple SIC codes are indicated with the source category name. The alphabetic index of SCC categories at the end of the listing identifies the SIC under which the SCC category will appear in the listing.

Emission Factors: Emission factors presented herein are intended only to be used for NEDS emission calculations and should not be used out of that context. See publication AP-42 for a further discussion of the proper use of emission factors. See "Emissions Calculation" for discussion of how emission factors are used in NEDS emission calculations. Where flags 'S' or'A' indicating fuel sulfur or ash content are specified, the appropriate sulfur or ash value from source data is accessed as part of the emission factor, i.e. "17A" indicates 17 times ash content is used as the emission factor. The units of the emission factors are all expressed in pounds per unit of process activity as defined by the SCC.

Emissions Calculation: Emissions in NEDS are based either on state-supplied emission estimates or emission factor calculations. If emission estimation method codes 1, 2, 4 or 5 are indicated in the source data, state-supplied emission estimates are used. No calculations using blank, emission factor calculations are used. An emission factor value of zero implies no emissions and emissions will always be calculated as zero regardless of what emission estimation method code is indicated. An emission factor value of blank implies that emissions are unknown. If an estimation method of 3 or blank is indicated, and the emission factor is blank, emissions will be calcuated as zero. If estimation method is 1, 2, 4 or 5 and emission factor is blank, emissions will be calculated according to state-supplied emission estimates. Emission estimation method codes of Ø, 6 and 7 normally cause emissions to be calculated as zero. An exception is if estimation method is Ø, but the emission factor is non-zero, non-blank in which case emissions will be calculated according to the emission factor and appropriate source data.

Source Data and Units: Source data refer to data input to the NEDS-USER file in the prescribed NEDS point source data format. The most critical source data items are the SCC, annual operating rate (in units defined by the SCC),

emission estimates, emission estimation method, control device efficiency and sulfur and ash contents. These data may be used in emission calculations as described above. Source data must be properly reported in order for emissions to be calculated correctly. In the preparation of source data, if estimation method codes 1, 2, 4 or 5 are indicated emission estimates must also be present. (The NEDS edit process will reject input data failing to meet this requirement). Note that emission estimates apply to an emission point, which may include multiple SCC's. If estimation method 3 is indicated, annual operating rate must be present (and expressed in correct units), and also control device efficiency, sulfur content, and ash content if applicable, must be present. Failure to provide proper source data will cause default values for sulfur or ash content to be used or will result in erroneous emission calculations.

Emission Point: In NEDS, an emission point is a process or group of related process activities defined as an individual source of emissions for reporting purposes. In the simplest situation, each stack or other confined point of emissions within a facility is defined as an emission point. When this is impractical, equivalent emission points representing groups of similar sources, "black box" representations of processes, or fugitive emissions sources may be defined. Each emission point corresponds to one completed NEDS point source coding form with a unique point ID. From 1 to 10 SCC's may be used to identify the pollution-producing processes represented by an emission point.

Facility: A facility in NEDS is defined as a single establishment under common ownership at a particular location that is represented in NEDS by a unique plant ID code. A facility may contain any number of emission points. Normally, the same SIC will apply to an entire facility, and thus to all emission points within the facility.

SCC Description, General: When the term "General" appears for an SCC process description, this implies definition of a specific process in overall terms, that is without regard to individual stack or other sources of emissions that may exist within the process. Such SCC's provide identification of processes as a simplified "black box" rather than a complex assortment of related emissions sources. Normally, general SCC's are replaced by more specific SCC's when more detailed information about the process is known. Accurate representation of control equipment that may

affect only part of a process is difficult if a general SCC is specified. General and specific SCC's should not be used together to represent the same process, since this may cause emissions to be duplicately calculated.

SCC Description, Other/Not classified: The term "Other/Not Classified for an SCC process description implies that this code should be used to represent process activities that may exist, but for which no specific SCC's have been defined. Normally, other/not classified SCC's end with -99. A comment, using either NEDS card 6 or card 7 SCC comment cards, should be specified to identify the process activity. Only other/not classified SCC's that appear in the listng should be used. Specification of improper other/not classified SCC's will cause data to be rejected in the NEDS edit process.

Pollutants: Emission factors in the SCC list are expressed as total particulate matter, total sulfur oxides as SO_2, total nitrogen oxides as NO_2, total hydrocarbons, and total carbon monoxide.

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PART 1

SOURCE CLASSIFICATION CODES

FOR

GENERAL PROCESSES

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
NOTE: A. Both boiler capacities and throughputs must be reported to NEDS for all boilers. B. Most SCC codes in the 99 categories have been deleted in this listing because specific boiler codes are available. C. Unless otherwise indicated, SCC's are defined to include all boiler sizes.							
EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION - 4911							
Anthracite Coal							
1-01-001-01	Pulverized coal	17.0 A	38.0 S	18.0	0.00	1.00	Tons burned
1-01-001-02	Travelling grate stokers	1.00 A	38.0 S	10.0	0.00	1.00	Tons burned
Bituminous Coal							
1-01-002-01	Pulverized coal: wet bottom	13.0 A	38.0 S	30.0	0.30	1.00	Tons burned
1-01-002-02	Pulverized coal: dry bottom	17.0 A	38.0 S	18.0	0.30	1.00	Tons burned
1-01-002-03	Cyclone furnace	2.00 A	38.0 S	55.0	0.30	1.00	Tons burned
1-01-002-04	Spreader stoker	13.0 A	38.0 S	15.0	1.00	2.00	Tons burned
1-01-002-05	Travelling grate (overfeed) stoker	5.00 A	38.0 S	15.0	1.00	2.00	Tons burned
Lignite							
1-01-003-01	Pulverized coal	7.00 A	30.0 S	14.0	0.30	1.00	Tons burned
1-01-003-03	Cyclone furnace	6.00 A	30.0 S	17.0	0.30	1.00	Tons burned
1-01-003-04	Travelling grate (overfeed) stoker	3.00 A	30.0 S	6.0	1.00	2.00	Tons burned
1-01-003-06	Spreader stokers	7.00 A	30.0 S	6.0	1.00	2.00	Tons burned
Residual Oil							
1-01-004-01	Grade 6 oil: normal firing (Normal firing includes horizontally opposed and front wall firing)	13.0 S[1]	159.0 S	105.0	1.00	5.00	1000 gallons burned
1-01-004-04	Grade 6 oil: tangential firing	13.0 S[1]	159.0 S	50.0	1.00	5.00	1000 gallons burned
1-01-004-05	Grade 5 oil: normal firing	10.0	159.0 S	105.0	1.00	5.00	1000 gallons burned
1-01-004-06	Grade 5 oil: tangential firing	10.0	159.0 S	50.0	1.00	5.00	1000 gallons burned
Distillate Oil							
1-01-005-01	Grades 1 and 2 oil	2.00	144.0 S	105.0	1.00	5.00	1000 gallons burned
1-01-005-04	Grade 4 oil: normal firing	7.00	150.0 S	105.0	1.00	5.00	1000 gallons burned
1-01-005-05	Grade 4 oil: tangential firing	7.00	150.0 S	50.0	1.00	5.00	1000 gallons burned
Natural Gas							
1-01-006-01	Boilers over 100 MMBtu/hr, except for tangentially fired units	10.0	0.60	700.0	1.00	17.0	Million cubic feet burned
1-01-006-02	Boilers under 100 MMBtu/hr, except for tangentially fired units	10.0	0.60	180.0	1.00	17.0	Million cubic feet burned
1-01-006-04	Tangentially fired Boilers	10.0	0.60	300.0	1.00	17.0	Million cubic feet burned
Process Gas (Specify Gas In Comments)							
1-01-007-01	Boilers over 100 MMBtu	10.0	950.0 S	700.0	1.00	17.0	Million cubic feet burned
1-01-007-02	Boilers under 100 MMBtu	10.0	950.0 S	230.0	1.00	17.0	Million cubic feet burned
Coke							
1-01-008-01	All boiler sizes	17.0 A	38.0 S	18.0	0.03	1.00	Tons burned

'A' indicates the ash content of the fuel.

'S' indicates the sulfur content of the fuel on a percent-by-weight basis.

(1) Particulate emissions from residual oil combustion can be more accurately estimated from the equation lb/1000 gal = 10S + 3. See AP-42, page 1.3-2.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS

NOTE: A. Both boiler capacities and throughputs must be reported to NEDS for all boilers.
B. Most SCC codes in the 99 categories have been deleted in this listing because specific boiler codes are available.
C. Unless otherwise indicated, SCC's are defined to include all boiler sizes.

EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION (cont)

Wood/Bark Waste							
1-01-009-01	Bark-fired boiler	75.0	1.50	10.0	2.00	2.00	Tons burned
1-01-009-02	Wood/bark-fired boilers	37.5	1.50	10.0	2.00	2.00	Tons burned
1-01-009-03	Wood-fired boiler	10.0	1.50	10.0	2.00	2.00	Tons burned
Bagasse							
1-01-011-01	All boiler sizes	16.0	0.00	1.20	2.00	2.00	Tons burned
Solid Waste							
1-01-012-01	Specify waste material in comment field						Tons burned
Liquid Waste							
1-01-013-01	Specify waste material in comment field						1000 gallons burned
1-01-013-02	Waste oil						1000 gallons burned

EXTERNAL COMBUSTION BOILERS - INDUSTRIAL

Anthracite Coal							
1-02-001-01	Pulverized coal	17.0 A	38.0 S	18.0	0.00	1.00	Tons burned
1-02-001-04	Travelling grate (overfeed) stoker	1.00 A	38.0 S	10.0	0.00	1.00	Tons burned
1-02-001-07	Hand-fired	10.0	38.0 S	3.00	2.50	90.0	Tons burned
Bituminous Coal							
1-02-002-01	Pulverized coal: wet bottom	13.0 A	38.0 S	30.0	0.30	1.00	Tons burned
1-02-002-02	Pulverized coal: dry bottom	17.0 A	38.0 S	18.0	0.30	1.00	Tons burned
1-02-002-03	Cyclone furnace	2.00 A	38.0 S	55.0	0.30	1.00	Tons burned
1-02-002-04	Spreader stoker	13.0 A	38.0 S	15.0	1.00	2.00	Tons burned
1-02-002-05	Overfeed and underfeed stokers greater than 10 MMBtu/hr	5.00 A	38.0 S	15.0	1.00	2.00	Tons burned
1-02-002-10	Overfeed and underfeed stokers less than 10 MMBtu/hr	2.00 A	38.0 S	6.00	3.00	10.0	Tons burned
Lignite							
1-02-003-01	Pulverized coal	7.00 A	30.0 S	14.0	0.30	1.00	Tons burned
1-02-003-03	Cyclone furnace	6.00 A	30.0 S	17.0	0.30	1.00	Tons burned
1-02-003-04	Travelling grate (overfeed) stokes	3.00 A	30.0 S	6.00	1.00	2.00	Tons burned
1-02-003-06	Spreader stoker	7.00 A	30.0 S	6.00	1.00	2.00	Tons burned
Residual Oil							
1-02-004-01	Grade 6 oil	12.0 S[1]	159.0				1000 gallons burned
1-02-004-04	Grade 5 oil	10.0	159.0 S	60.0	1.00	5.00	1000 gallons burned

'A' indicates the ash content of the fuel.

'S' indicates the sulfur content of the fuel on a percent-by-weight basis.

[1]Particulate emissions from residual oil combustion can be more accurately estimated from the equation lb/1000 gal = 10S + 3. See AP-42, page 1.3-2.

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS

NOTE: A. Both boiler capacities and throughputs must be reported to NEDS for all boilers.
B. Most SCC codes in the 99 categories have been deleted in this listing because specific boiler codes are available.
C. Unless otherwise indicated, SCC's are defined to include all boiler sizes.

EXTERNAL COMBUSTION BOILERS - INDUSTRIAL (Continued)

SCC	PROCESS	PART	SO_x	NO_x	HC	CO	UNITS
Distillate Oil							
1-02-005-01	Grades 1 and 2 oil	2.00	144.0 S	22.0	1.00	5.00	1000 gallons burned
1-02-005-04	Grade 4 oil	7.00	150.0 S	22.0	1.00	5.00	1000 gallons burned
Natural Gas							
1-02-006-01	Over 100 MMBtu/hr	10.0	0.60	700.0	1.00	17.0	Million cubic feet burned
1-02-006-02	10-100 MMBtu/hr	10.0	0.60	180.0	3.00	17.0	Million cubic feet burned
1-02-006-03	Less than 10 MMBtu/hr	10.0	0.60	120.0	8.00	20.0	Million cubic feet burned
Process Gas							
	Note: Sulfur content must be noted on NEDS form.						
1-02-007-01	Petroleum refinery		950.0 S				Million cubic feet burned
1-02-007-04	Blast furnace		950.0 S				Million cubic feet burned
1-02-007-07	Coke oven		950.0 S				Million cubic feet burned
1-02-007-99	Other/not classified (Specify in comments)		950.0 S				Million cubic feet burned
Coke							
1-02-008-02	All boiler sizes	1.00 A	38.0 S	10.0	0.00	1.00	Tons burned
Wood/Bark Waste							
1-02-009-01	Bark-fired boiler	75.0	1.50	10.0	2.00	2.00	Tons burned
1-02-009-02	Wood/bark-fired boiler	37.5	1.50	10.0	2.00	2.00	Tons burned
1-02-009-03	Wood-fired boiler	10.0	1.50	10.0	2.00	2.00	Tons burned
Liquid Petroleum Gas (LPG)							
1-02-010-02	All boiler sizes	1.75	86.5 S	11.5	0.30	1.55	1000 gallons burned
Bagasse							
1-02-011-01	All boiler sizes	16.0	0.00	1.20	2.00	2.00	Tons burned
Solid Waste							
1-02-012-01	Specify waste material in comment field						Tons burned
Liquid Waste							
	Note: See 3-07-001-04 for recovery boilers in Kraft Pulp Mills.						
1-02-013-01	Specify waste material in comment field						1000 gallons burned
1-02-013-02	Waste oil						1000 gallons burned

'A' indicates the ash content of the fuel.

'S' indicates the sulfur content of the fuel on a percent-by-weight basis.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
NOTE: A. Both boiler capacities and throughputs must be reported to NEDS for all boilers. B. Most SCC codes in the 99 categories have been deleted in this listing because specific boiler codes are available. C. Unless otherwise indicated, SCC's are defined to include all boiler sizes.							
EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INSTITUTIONAL							
Anthracite Coal							
1-03-001-01	Pulverized coal	17.0 A	38.0 S	18.0	0.00	1.00	Tons burned
1-03-001-02	Travelling grate (overfeed) stoker	1.00 A	38.0 S	10.0	0.00	1.00	Tons burned
1-03-001-03	Hand-fired	10.0	38.0 S	3.00	2.50	90.0	Tons burned
Bituminous Coal							
1-03-002-05	Pulverized coal: wet bottom	13.0 A	38.0 S	30.0	0.30	1.00	Tons burned
1-03-002-06	Pulverized coal: dry bottom	17.0 A	38.0 S	18.0	0.30	1.00	Tons burned
1-03-002-07	Over and underfeed stokers greater than 10 MMBtu/hr	5.00 A	38.0 S	15.0	1.00	2.00	Tons burned
1-03-002-09	Spreader stoker	13.0 A	38.0 S	15.0	1.00	2.00	Tons burned
1-03-002-11	Over and underfeed stokers less than 10 MMBtu/hr	2.00 A	38.0 S	6.00	3.00	10.0	Tons burned
Lignite							
1-03-003-05	Pulverized coal	7.00 A	30.0 S	14.0	0.30	1.00	Tons burned
1-03-003-07	Travelling Grate (overfeed) stoker	3.00 A	30.0 S	6.00	1.00	2.00	Tons burned
1-03-003-09	Spreader stoker	7.00 A	30.0 S	6.00	1.00	2.00	Tons burned
Residual Oil							
1-03-004-01	Grade 6 oil	12.0 S[1]	159.0 S	60.0	1.00	5.00	1000 gallons burned
1-03-004-04	Grade 5 oil	10.0	159.0 S	60.0	1.00	5.00	1000 gallons burned
Distillate Oil							
1-03-005-01	Grades 1 and 2 oil	2.00	144.0 S	22.0	1.00	5.00	1000 gallons burned
1-03-005-04	Grade 4 oil	7.00	150.0 S	22.0	1.00	5.00	1000 gallons burned
Natural Gas							
1-03-006-01	Over 100 MMBtu/hr	10.0	0.60	700.0	1.00	17.0	Million cubic feet burned
1-03-006-02	10-100 MMBtu/hr	10.0	0.60	180.0	3.00	17.0	Million cubic feet burned
1-03-006-03	Less than 10 MMBtu/hr	10.0	0.60	120.0	8.00	20.0	Million cubic feet burned
Process Gas							
1-03-007-01	Sewage gas						Million cubic feet burned
1-03-007-99	Other/not classified (specify fuel in comment field)						Million cubic feet burned

'A' indicates the ash content of the fuel.

'S' indicates the sulfur content of the fuel on a percent-by-weight basis.

[1]Particulate emissions from residual oil combustion can be more accurately estimated from the equation lb/1000 gal = 10S + 3. See AP-42, page 1.3-2.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
NOTE: A. Both boiler capacities and throughputs must be reported to NEDS for all boilers. B. Most SCC codes in the 99 categories have been deleted in this listing because specific boiler codes are available. C. Unless otherwise indicated, SCC's are defined to include all boiler sizes.							
EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INSTITUTIONAL							
Wood/Bark Waste							
1-03-009-01	Bark boiler	75.0	1.50	10.0	2.00	2.00	Tons burned
1-03-009-02	Wood/bark boiler	37.5	1.50	10.0	2.00	2.00	Tons burned
1-03-009-03	Wood boiler	10.0	1.50	10.0	2.00	2.00	Tons burned
Liquified Petroleum Gas (LPG)							
1-03-010-02	All boiler sizes	1.85	86.5 S	11.5	0.75	1.95	1000 gallons burned
Solid Waste							
1-03-012-01	Specify waste material in comment field						Tons burned
Liquid Waste							
1-03-013-01	Specify waste material in comment field						1000 gallons burned
1-03-013-02	Waste oil						1000 gallons burned

'S' indicates the sulfur content of the fuel on a percent-by-weight basis.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
NOTE: Most SCC codes in the 99 categories have been deleted in this listing because specific boiler codes are available.							
EXTERNAL COMBUSTION: SPACE HEATERS							
Industrial Space Heaters							
1-05-001-05	Distillate oil	2.50	144. S	18.0	1.00	5.00	1000 gallons burned
1-05-001-06	Natural gas	10.0	0.6	100.	8.00	20.0	Million cubic feet burned
1-05-001-10	Liquified petroleum gas (LPG)	1.85	86.5 S	7.50	0.75	1.95	1000 gallons burned
Commercial Space Heaters							
1-05-002-05	Distillate oil	2.50	144. S	18.0	1.00	5.00	1000 gallons burned
1-05-002-06	Natural gas	10.0	0.60	100.	8.00	20.0	Million cubic feet burned
1-05-002-10	Liquified petroleum gas (LPG)	1.85	86.5 S	7.50	0.75	1.95	1000 gallons burned

'S' indicates the sulfur content of the fuel on a percent-by-weight basis.

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
INTERNAL COMBUSTION ENGINES							
Internal Combustion - Electrical Generation - 4911							
2-01-001-01	Distillate oil (diesel): turbine	5.00	140.0 S	67.8	5.57	15.4	1000 gallons burned
2-01-001-02	Distillate oil (diesel): reciprocating	33.5	31.2	469.0	37.5	102.0	1000 gallons burned
2-01-002-01	Natural gas: turbine	14.0	940.0 S	413.0	42.0	115.0	Million cubic feet burned
2-01-002-02	Natural gas: reciprocating	0.00	0.60	3400.	1400.	430.0	Million cubic feet burned
2-01-009-01	Kerosene/naptha (jet fuel): turbine	5.00	6.20	67.8	5.57	15.4	1000 gallons burned
2-01-009-02	Kerosene/naptha (jet fuel): reciprocating	33.5	6.20	469.0	37.5	102.0	1000 gallons burned
Internal Combustion - Industrial							
2-02-001-01	Distillate oil (diesel): turbine	5.00	140.0 S	67.8	5.57	15.4	1000 gallons burned
2-02-001-02	Distillate oil (diesel): reciprocating	33.5	31.2	469.0	37.5	102.0	1000 gallons burned
2-02-002-01	Natural gas: turbine	0.00	0.60	300.0	23.0	120.0	Million cubic feet burned
2-02-002-02	Natural gas: reciprocating	0.00	0.60	3400.	1400.	430.0	Million cubic feet burned
2-02-003-01	Gasoline: reciprocating	6.47	5.31	102.0	161.0	3990.	1000 gallons burned
2-02-009-01	Kerosene/naptha (jet fuel): turbine	5.00	6.20	67.8	5.57	15.4	1000 gallons burned
2-02-009-02	Kerosene/naptha (jet fuel): reciprocating	33.5	6.20	469.0	37.5	102.0	1000 gallons burned
Internal Combustion - Commercial/Institutional							
2-03-001-01	Distillate oil (diesel): reciprocating	33.5	31.2	469.0	37.5	102.0	1000 gallons burned
2-03-002-01	Natural gas: reciprocating	0.00	0.6	3400.	1400.	430.0	Million cubic feet burned
2-03-003-01	Gasoline: reciprocating	6.47	5.31	102.0	161.0	3990.	1000 gallons burned
Engine Testing							
2-04-001-01	Aircraft turbojet testing	11.8	13.0	14.6	46.0	32.7	1000 gallons burned

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT: PART	SO_x	NO_x	HC	CO	UNITS
SOLID WASTE DISPOSAL: GOVERNMENT							
Municipal Incineration - 4953							
5-01-001-01	Multiple chamber	30.0	2.50	3.00	1.50	35.0	Tons burned
5-01-001-02	Single chamber	15.0	2.50	2.00	15.0	20.0	Tons burned
5-01-005-07	Conical design (tee-pee): Municipal refuse	20.0	2.00	5.00	20.0	60.0	Tons burned
Open Burning Dump							
5-01-002-01	General refuse	16.0	1.00	6.00	30.0	85.0	Tons burned
5-01-002-02	Vegetation only	17.0	0.00	4.00	24.0	140.0	Tons burned
Other Incineration							
5-01-005-05	Pathological	8.00	0.00	3.00	0.00	0.00	Tons burned
5-01-005-06	Sludge	100.0	1.00	5.00	1.00	0.00	Tons dry sludge
5-01-005-08	Conical design (tee-pee): Wood refuse	7.00	0.10	1.00	11.0	130.0	Tons burned
Auxiliary Fuel/No Emissions							
5-01-900-05	Distillate oil	0.00	0.00	0.00	0.00	0.00	1000 gallons burned
5-01-900-06	Natural gas	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
5-01-900-10	Liquified petroleum gas (LPG)	0.00	0.00	0.00	0.00	0.00	1000 gallons burned
SOLID WASTE DISPOSAL: COMMERCIAL/INSTITUTIONAL							
Incineration (General)							
5-02-001-01	Multiple chamber	7.00	2.50	3.00	3.00	10.0	Tons burned
5-02-001-02	Single chamber	15.0	2.50	2.00	15.0	20.0	Tons burned
5-02-001-03	Controlled air	1.40	1.50	10.0	0.00	0.00	Tons burned
5-02-001-04	Conical design: Municipal refuse	20.0	2.00	5.00	20.0	60.0	Tons burned
5-02-001-05	Conical design: Wood refuse	7.00	0.10	1.00	11.0	130.	Tons burned
Open Burning							
5-02-002-01	Wood	17.0	0.00	4.00	24.0	140.0	Tons burned
5-02-002-02	Refuse	16.0	1.00	6.00	30.0	85.0	Tons burned
Apartment Incineration							
5-02-003-01	Flue fed	30.0	0.50	3.00	15.0	20.0	Tons burned
5-02-003-02	Flue fed (with afterburner and draft controls)	6.00	0.50	10.0	3.00	10.0	Tons burned
Incineration (Special Purpose)							
5-02-005-05	Pathological waste	8.00	0.00	3.00	0.00	0.00	Tons burned
5-02-005-06	Sludge	100.0	1.00	5.00	1.00	0.00	Tons dry sludge
Auxiliary Fuel/No Emissions							
5-02-900-05	Distillate oil	0.00	0.00	0.00	0.00	0.00	1000 gallons burned
5-02-900-06	Natural gas	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
5-02-900-10	Liquified petroleum gas (LPG)	0.00	0.00	0.00	0.00	0.00	1000 gallons burned

		POUNDS EMITTED PER UNIT					
		PART	SO_x	NO_x	HC	CO	UNITS
SOLID WASTE DISPOSAL: INDUSTRIAL							
Incineration							
5-03-001-01	Multiple chamber	7.00	2.50	3.00	3.00	10.0	Tons burned
5-03-001-02	Single chamber	15.0	2.50	2.00	15.0	20.0	Tons burned
5-03-001-03	Controlled air	1.40	1.50	10.0	0.00	0.00	Tons burned
5-03-001-04	Conical design: refuse	20.0	2.00	5.00	20.0	60.0	Tons burned
5-03-001-05	Conical design: wood refuse	7.00	0.10	1.00	11.0	130.0	Tons burned
5-03-001-06	Open pit	13.0	0.10	4.00	0.00	0.00	Tons of waste
5-03-001-08	Auto body components	2.00	0.00	0.10	0.91	2.50	Car burned
5-03-005-06	Sludge	100.0	1.00	5.00	1.00	0.00	Tons of dry sludge
Open Burning							
5-03-002-01	Wood/vegetation/leaves	17.0	0.00	4.00	24.0	140.0	Tons burned
5-03-002-02	Refuse	16.0	1.00	6.00	30.0	85.0	Tons burned
5-03-002-03	Auto body components	100.0	0.00	4.00	30.0	125.0	Tons burned
5-03-002-04	Coal refuse piles	0.90	1.10	0.10	0.50	2.50	Cubic yards of pile
Auxiliary Fuel/No Emissions							
5-03-900-05	Distillate oil	0.00	0.00	0.00	0.00	0.00	1000 gallons burned
5-03-900-06	Natural gas	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
5-03-900-10	Liquified petroleum gas (LPG)	0.00	0.00	0.00	0.00	0.00	1000 gallons burned

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
IN-PROCESS FUEL USE[1,2]							
In-Process Fuel							
Note: The process gas codes below ending in 97, 98, and 99 can be used to record up to three different process gases used in each point source. If only one process gas is used, any of these three SCC codes is suitable.							
3-90-001-99	Anthracite coal	0.00	0.00	0.00	0.00	0.00	Tons burned
3-90-002-99	Bituminous coal	0.00	0.00	0.00	0.00	0.00	Tons burned
3-90-003-99	Lignite	0.00	0.00	0.00	0.00	0.00	Tons burned
3-90-004-99	Residual oil	0.00	0.00	0.00	0.00	0.00	1000 gallons burned
3-90-005-99	Distillate oil	0.00	0.00	0.00	0.00	0.00	1000 gallons burned
3-90-006-99	Natural gas	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
3-90-007-01	Process gas (CO or blast furnace)	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
3-90-007-02	Process gas (coke ovens)	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
3-90-007-97	Process gas (general) - specify in comments field	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
3-90-007-98	Process gas (general) - specify in comments field	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
3-90-007-99	Process gas (general) - specify in comments field	0.00	0.00	0.00	0.00	0.00	Million cubic feet burned
3-90-008-99	Coke	0.00	0.00	0.00	0.00	0.00	Tons burned
3-90-009-99	Wood	0.00	0.00	0.00	0.00	0.00	Tons burned
3-90-010-99	Liquified petroleum gas (LPG)	0.00	0.00	0.00	0.00	0.00	1000 gallons burned
3-90-012-99	Solid waste fuel - specify in comments field	0.00	0.00	0.00	0.00	0.00	Tons burned
3-90-013-99	Liquid waste fuel - specify in comments field	0.00	0.00	0.00	0.00	0.00	1000 gallons burned

[1]See Part II, SIC 3241 for specific in-process fuel codes for cement manufacturing.

[2]These in-process fuel codes must always be used in conjunction with the appropriate process code.

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
DEGREASING							
4-01-002-01	Stoddard	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
4-01-002-02	1.1.1-Trichlorethane (Methylchloroform)	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
4-01-002-03	Perchloroethylene	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
4-01-002-04	Methylene Chloride	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
4-01-002-05	Trichloroethylene	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
4-01-002-06	Toluene	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
4-01-002-07	Trichlorotrifluoroethane	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
4-01-002-99	Other/not classified (Specify in comments)	0.00	0.00	0.00	2000.	0.00	Tons solvent used[1]
SURFACE COATING							
Coating							
4-02-001-01	Paint, general	0.00	0.00	0.00	1120.	0.00	Tons coating
4-02-003-01	Varnish/shellac, general	0.00	0.00	0.00	1000.	0.00	Tons coating
4-02-004-01	Lacquer, general	0.00	0.00	0.00	1540.	0.00	Tons coating
4-02-005-01	Enamel, general	0.00	0.00	0.00	840.0	0.00	Tons coating
4-02-006-01	Primer, general	0.00	0.00	0.00	1320.	0.00	Tons coating
4-02-007-01	Adhesive, general	0.00	0.00	0.00		0.00	Tons coating
Coating Oven							
4-02-008-01	General	0.00	0.00	0.00		0.00	Tons coating
Oven Heater							
4-02-010-01	Natural gas						Million cubic feet burned
4-02-010-02	Distillate oil						1000 gallons burned
4-02-010-03	Residual oil						1000 gallons burned
THINNING SOLVENTS							
NOTE: These solvents are used to thin coatings and thus should be coded with one of the coating codes above.							
4-02-009-01	General - specify in comments field	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-02	Acetone	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-03	Butyl acetate	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-04	Butyl alcohol	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-05	Carbitol	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-06	Cellosolve	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-07	Cellosolve acetate	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-08	Dimethylformamide	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-09	Ethyl acetate	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-10	Ethyl alcohol	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-11	Gasoline	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-12	Isopropyl alcohol	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-13	Isopropyl acetate	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-14	Kerosene	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-15	Lactol spirits	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-16	Methyl acetate	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-17	Methyl alcohol	0.00	0.00	0.00	2000.	0.00	Tons solvent

[1]These units refer to the quantity of make-up solvent used; not the quantity charged to the sump tank.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
THINNING SOLVENTS (Continued)							
NOTE: These solvents are used to thin coatings and thus should be coded with one of the coating codes above.							
4-02-009-18	MEK	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-19	MIBK	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-20	Mineral spirits	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-21	Naphtha	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-22	Toluene	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-23	Varsol	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-24	Xylene	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-25	Benzene	0.00	0.00	0.00	2000.	0.00	Tons solvent
4-02-009-26	Turpentine	0.00	0.00	0.00	2000.	0.00	Tons solvent

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MISCELLANEOUS HYDROCARBON EVAPORATION							
4-90-999-99	Identify the Process and the Solvent in comments	0.00	0.00	0.00	2000.	0.00	Tons of solvent consumed

PART 2

SOURCE CLASSIFICATION CODES

FOR

SPECIFIC INDUSTRIES

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
FUGITIVE EMISSIONS FROM INDUSTRIAL SOURCES							
NOTE: Fugitive emissions occur from numerous locations within industrial facilities but, as of 1978, most of these sources have not been fully characterized. To allow these fugitive sources to be represented in NEDS, common SCC codes have been developed and are tabulated below. These codes should be used in addition to the main process SCC codes associated with the facility. Specific fugitive emissions that have been characterized are also contained in the text.							
Chemical							
3-01-888-01	Specify in the comments field						Tons product
Food							
3-02-888-01	Specify in the comments field						Tons product
Primary Metal							
3-03-888-01	Specify in the comments field						Tons product
Secondary Metal							
3-04-888-01	Specify in the comments field						Tons product
Mineral Products							
3-05-888-01	Specify in the comments field						Tons product
Petroleum Industry							
3-06-888-01	Specify in the comments field						1000 bbls. refinery feed
Oil and Gas Extraction							
3-10-888-01	Specify in the comments field						100 barrels feed produced
Wood Products							
3-07-888-01	Specify in the comments field						Tons product
Metal Fabrications							
3-09-888-01	Specify in the comments field						Tons product
Textile Manufacturing							
3-30-888-01	Specify in the comments field						Tons product
Cleaning Solvent							
4-01-888-01	Specify in the comments field						Tons product
Surface Coating							
4-02-888-01	Specify in the comments field						Tons product
Petroleum Storage							
4-03-888-01	Specify in the comment field						1000 gallons storage capacity
Printing Press							
4-05-888-01	Specify in the comment field						Tons product
Petroleum Marketing & Transportation							
4-06-888-01	Specify in the comment field						1000 gallons throughput

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 07 - AGRICULTURAL SERVICES							
Cotton Ginning - 0724, 0131							
3-02-004-01	Unloading Fan	5.00	0.00	0.00	0.00	0.00	Bales of cotton
3-02-004-02	Seed Cotton Cleaning System	0.30	0.00	0.00	0.00	0.00	Bales of cotton
3-02-004-03	Stick/Burr Machine	0.20	0.00	0.00	0.00	0.00	Bales of cotton
3-02-004-04	Miscellaneous (Lint Cleaner/ Battery Condensers; Master Trash/Overflow/Mote Fans)	1.50	0.00	0.00	0.00	0.00	Bales of cotton
3-02-004-10	General (Entire process, alternative to above)	7.00	0.00	0.00	0.00	0.00	Bales of cotton

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 10 - METAL MINING[1]							
Gold - 1041							
3-03-013-01	Mining/Processing		0.00	0.00	0.00	0.00	Hundreds of tons of ore
Aluminum Ore - Bauxite 1051							
3-03-000-01	Crushing/Handling	600.00	0.00	0.00	0.00	0.00	Hundreds of tons of ore processed
3-03-000-02	Drying Oven						Hundreds of tons of ore processed
Molybedenum Ore Mining - 1061							
3-03-011-01	Mining - General		0.00	0.00	0.00	0.00	Hundreds of tons mined
3-03-011-02	Milling - General		0.00	0.00	0.00	0.00	Hundreds of tons produced
3-03-011-99	Processing (Specify in Comments)						Hundreds of tons produced
Mining - Specify Material - 1011-1099							
3-05-040-01	Open Pit Blasting		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-02	Open Pit Drilling		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-03	Open Pit Cobbing		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-10	Underground Ventilation		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-20	Loading		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-21	Convey/Haul Material		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-22	Convey/Haul Waste		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-23	Unloading		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-24	Stripping		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-25	Stockpile		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-30	Primary Crusher		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-31	Secondary Crusher		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-32	Ore Concentrator		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-33	Ore Dryer		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-34	Screening		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-36	Tailing Piles		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-99	Other/Not Classified (Specify in Comments)		0.00	0.00	0.00	0.00	Hundreds of tons of material

[1] For barium ore processing, see Part II, SIC 3295.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUPS 11 and 12 - ANTHRACITE MINING, AND BITUMINOUS COAL AND LIGNITE MINING							
Coal Cleaning[1] - 1111,1211							
Thermal Dryer							
3-05-010-01	Fluidized Bed	20.0					Tons coal dried
3-05-010-02	Flash or Suspension	16.0					Tons coal dried
3-05-010-03	Multilouvered	25.0					Tons coal dried
3-05-010-04	Rotary						Tons coal dried
3-05-010-05	Cascade						Tons coal dried
3-05-010-06	Continuous Carrier						Tons coal dried
3-05-010-07	Screen						Tons coal dried
Material Handling							
3-05-010-08	Unloading		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-09	Raw Coal Storage		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-10	Crushing		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-11	Coal Transfer		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-12	Screening		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-13	Air Tables		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-14	Cleaned Coal Storage		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-15	Loading		0.00	0.00	0.00	0.00	Tons shipped
3-05-010-99	Other/Not Classified (Specify in Comments)		0.00	0.00	0.00	0.00	Tons shipped

[1] These codes are also applicable to Coal Cleaning Operations located at power plants.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 13 - OIL AND GAS EXTRACTION							
For Internal Combustion Engines, See Part I, SCC 2-02-XXX-XX For Petroleum Storage Tanks, See Major Group 29 For Sulfur Recovery Plants, See Major Group 28							
Crude Oil Production- 1311							
3-10-001-99	Not Classified (Specify in Comments)						1,000 Barrels Produced
Natural Gas Production - 1311							
3-10-002-01	Gas Sweetening (Amine Process) (Smokeless Flares/Tail Gas Incinerators)	0.00	$1685.S_m$	0.00	0.00	0.00	Million Cubic Feet of Sour Gas Processed
3-10-002-02	Gas Stripping Operations						Million Cubic Feet of Gas Processed
3-10-002-99	Other/Not Classified (Specify in Comments)						Million Cubic Feet of Gas Processed

'S_m' indicates the sulfur content of the fuel as H_2S on a mole percent basis.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 14 - MINING AND QUARRYING OF NONMETALLIC MINERAL, EXCEPT FUELS							
Mining - Specify Material - 1400-1499							
3-05-040-01	Open Pit Blasting		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-02	Open Pit Drilling		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-03	Open Pit Cobbing		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-10	Underground Ventilation		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-20	Loading		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-21	Convey/Haul Material		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-22	Convey/Haul Waste		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-23	Unloading		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-24	Stripping		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-25	Stockpile		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-30	Primary Crusher		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-31	Secondary Crusher		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-32	Ore Concentrator		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-33	Ore Dryer		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-34	Screening		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-36	Tailing Piles		0.00	0.00	0.00	0.00	Hundreds of tons of material
3-05-040-99	Other/Not Classified (Specify in Comments)		0.00	0.00	0.00	0.00	Hundreds of tons of material
Stone Quarrying/Processing - 1411, 1422, 1423, 1429, 1499							
3-05-020-01	Primary Crushing	0.10	0.00	0.00	0.00	0.00	Tons raw material
3-05-020-02	Sec. Crush/Screen	0.60	0.00	0.00	0.00	0.00	Tons raw material
3-05-020-03	Tert. Crush/Screen	3.60	0.00	0.00	0.00	0.00	Tons raw material
3-05-020-04	Recrush/Screening	2.50	0.00	0.00	0.00	0.00	Tons processed
3-05-020-05	Fines Mill	4.50	0.00	0.00	0.00	0.00	Tons processed
3-05-020-06	Miscellaneous Operation-Screening/Conveying & Handling	2.00	0.00	0.00	0.00	0.00	Tons raw material
3-05-020-07	Open Storage	0.33[1]	0.00	0.00	0.00	0.00	Tons product stored
3-05-020-08	Cut Stone - General		0.00	0.00	0.00	0.00	Tons processed
3-05-020-09	Blasting - General		0.00	0.00	0.00	0.00	Tons raw material
3-05-020-10	Drilling		0.00	0.00	0.00	0.00	Tons raw material
3-05-020-11	Hauling		0.00	0.00	0.00	0.00	Vehicle miles
3-05-020-12	Drying						Tons stone dryed

[1] Does not correct for the PE Index, See AP-42, Section 11.2.3.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 14 - MINING AND QUARRYING OF NONMETALLIC MINERAL, EXCEPT FUELS (Continued)							
Sand/Gravel - 1442, 1446							
3-05-025-01	Crushing/Screen	0.10	0.00	0.00	0.00	0.00	Tons product
3-05-025-02	Aggregate Storage		0.00	0.00	0.00	0.00	Tons product
3-05-025-03	Material Transfer & Conveying		0.00	0.00	0.00	0.00	Tons product
3-05-025-04	Hauling		0.00	0.00	0.00	0.00	Vehicle miles
Magnesium Carbonate - 1459							
3-05-024-01	Mine/Process		0.00	0.00	0.00	0.00	Tons product
3-05-024-99	Other/Not Classified (Specify in Comments)						Tons processed
Potash Production - 1474							
3-05-022-01	Mine - Grind/Dry		0.00	0.00	0.00	0.00	Tons ore
3-05-022-99	Other/Not Classified (Specify in Comments)						Tons processed

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 14 - MINING AND QUARRYING OF NONMETALLIC MINERAL, EXCEPT FUELS (CONTINUED)							
Phosphate Rock - 1475							
3-05-019-01	Drying	15.0					Tons phosphate rock
3-05-019-02	Grinding	20.0	0.00	0.00	0.00	0.00	Tons phosphate rock
3-05-019-03	Transfer/Storage	2.00	0.00	0.00	0.00	0.00	Tons phosphate rock
3-05-019-04	Open Storage	40.0	0.00	0.00	0.00	0.00	Tons phosphate rock
3-05-019-99	Other/Not Classified (Specify in Comments)						Tons processed
Salt Mining - 1476							
3-05-021-01	Not Classified (Specify in Comments)		0.00	0.00	0.00	0.00	Tons mined
Diatomacous Earth - 1499, 3295							
3-05-026-01	Handling		0.00	0.00	0.00	0.00	Tons product
3-05-026-99	Other/Not Classified (Specify in Comments)						Tons processed
Asbestos Mining - 1499							
3-05-031-01	Surface Blasting		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-02	Surface Drilling		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-03	Cobbing		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-04	Loading		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-05	Convey/Haul Asbestos		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-06	Convey/Haul Waste		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-07	Unloading		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-08	Overburden Stripping		0.00	0.00	0.00	0.00	Tons removed
3-05-031-09	Ventilation of Process Operations		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-10	Stockpiling		0.00	0.00	0.00	0.00	Tons of ore
3-05-031-11	Tailing Piles		0.00	0.00	0.00	0.00	Tons of material
3-05-031-99	Other/Not Classified (Specify in Comments)						Tons processed
Asbestos Milling - 1499							
3-05-032-01	Crushing		0.00	0.00	0.00	0.00	Tons processed
3-05-032-02	Drying		0.00	0.00	0.00	0.00	Tons processed
3-05-032-03	Recrushing		0.00	0.00	0.00	0.00	Tons processed
3-05-032-04	Screening		0.00	0.00	0.00	0.00	Tons processed
3-05-032-05	Fiberizing		0.00	0.00	0.00	0.00	Tons processed
3-05-032-06	Bagging		0.00	0.00	0.00	0.00	Tons Processed
3-05-032-99	Other/Not Classified (Specify in Comments)						Tons Processed
Vermiculite - 1499							
3-05-033-01	Not Classified (Specify in Comments)						Tons Product

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 20 - FOOD AND KINDRED PRODUCTS[1]							
Meat Smokehouses - 2012, 2013							
3-02-013-01	Combined Operations	0.30			0.07	0.60	Tons meat smoked
Dairy Products - 2021, 2022, 2023, 2024, 2026							
3-02-030-01	Milk Spray-Dryer		0.00				Tons product
3-02-030-99	Other/Not Classified (Specify in Comments)						Tons product
Barley Milling - 2041							
3-02-007-03	Barley Cleaning	0.20	0.00	0.00	0.00	0.00	Tons grain processed
3-02-007-05	Barley Flour Mill	3.00	0.00	0.00	0.00	0.00	Tons grain processed
Milo Milling - 2041							
3-02-007-04	Milo Cleaning	0.40	0.00	0.00	0.00	0.00	Tons grain processed
Durum Mills - 2041							
3-02-007-11	Grain Receiving	1.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-12	Precleaning/Handling	5.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-13	Cleaning House		0.00	0.00	0.00	0.00	Tons grain received
3-02-007-14	Millhouse		0.00	0.00	0.00	0.00	Tons grain received
Rye Milling - 2041							
3-02-007-21	Grain Receiving	1.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-22	Precleaning/Handling	5.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-23	Cleaning House		0.00	0.00	0.00	0.00	Tons grain received
3-02-007-24	Millhouse[2]	70.0	0.00	0.00	0.00	0.00	Tons grain received
Wheat Mills - 2041							
3-02-007-31	Grain Receiving	1.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-32	Precleaning/Handling	5.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-33	Cleaning House		0.00	0.00	0.00	0.00	Tons grain received
3-02-007-34	Millhouse[2]	70.0	0.00	0.00	0.00	0.00	Tons grain received
Dry Corn Milling - 2041							
3-02-007-41	Grain Receiving	1.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-42	Grain Drying	0.50	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-43	Precleaning/Handling	5.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-44	Cleaning House	6.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-45	Degerming and Milling		0.00	0.00	0.00	0.00	Tons grain received

[1] Grain processing and milling are included in SIC's 2041, 2044, 2046, and 2075. For grain elevators, see Part II, SIC 5153.

[2] The particulate emission factor is on emissions at the inlet to the baghouse or other control device. Indicate the control device and efficiency to properly estimate the actual emissions.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 20 - FOOD AND KINDRED PRODUCTS (CONTINUED)							
Oat Milling - 2041							
3-02-007-60	General		0.00	0.00	0.00	0.00	Tons grain received
Rice Milling - 2044							
3-02-007-71	Grain Receiving	0.64	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-72	Handling and Precleaning	5.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-73	Drying		0.00	0.00	0.00	0.00	Tons grain received
3-02-007-74	Cleaning and Millhouse		0.00	0.00	0.00	0.00	Tons grain received
Vegetable Oil Processing - 2046, 2074, 2076, 2079							
3-02-019-01	Corn Oil-General (2046)						Tons refined oil produced
3-02-019-02	Cottonseed Oil-General (2074)						Tons refined oil produced
3-02-019-03	Soybean Oil-General (2075)						Tons refined oil produced
3-02-019-04	Coconut Oil-General (2076)						Tons refined oil produced
3-02-019-05	Peanut Oil-General (2076)						Tons refined oil produced
3-02-019-99	Other/Not Classified (2076, 2079) (Specify in Comments)						Tons refined oil produced
Starch Manufacturing - 2046							
3-02-014-01	Combined Operations	8.00					Tons starch produced
Corn Wet Milling - 2046							
3-02-007-51	Grain Receiving	1.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-52	Grain Handling	5.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-53	Grain Cleaning	6.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-54	Dryers		0.00	0.00	0.00	0.00	Tons grain received
3-02-007-55	Bulk Loading		0.00	0.00	0.00	0.00	Tons grain received
3-02-007-56	Milling		0.00	0.00	0.00	0.00	Tons grain received
Alfalfa Dehydrating - 2048							
3-02-001-02	Primary Cyclone and Dryer	10.0	0.00	0.00	0.00	0.00	Tons product
3-02-001-03	Meal Collector Cyclone	2.60	0.00	0.00	0.00	0.00	Tons product
3-02-001-04	Pellet Cooler Cyclone	3.00	0.00	0.00	0.00	0.00	Tons product

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 20 - FOOD AND KINDRED PRODUCTS (Continued)							
Feed Manufacture - 2048							
3-02-008-02	Grain Receiving	1.30	0.00	0.00	0.00	0.00	Tons grain received
3-02-008-03	Shipping	0.50	0.00	0.00	0.00	0.00	Tons grain received
3-02-008-04	Handling	3.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-008-05	Grinding		0.00	0.00	0.00	0.00	Tons grain received
3-02-008-06	Pellet Coolers		0.00	0.00	0.00	0.00	Tons grain received
Bakeries - 2051, 2052							
3-02-032-99	Not Classified (Specify in Comments)						Tons product
Sugar Cane Processing - 2061, 2062							
3-02-015-99	Not Classified (Specify in Comments)						Tons sugar produced

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 20 - FOOD AND KINDRED PRODUCTS (CONTINUED)							
Sugar Beet Processing - 2063							
3-02-016-01	Dryer						Tons raw beets
3-02-016-99	Other/Not Classified (Specify in Comments)						Tons raw beets
Candy Manufacturing - 2065, 2066							
3-02-018-99	Not Classified (Specify in Comments)						Tons product
Soybean Mills - 2075, 2041							
3-02-007-81	Grain Receiving	1.60	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-82	Grain Handling	5.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-83	Grain Cleaning		0.00	0.00	0.00	0.00	Tons grain received
3-02-007-84	Drying	7.20	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-85	Cracking and Dehulling	3.30	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-86	Hull Grinding	2.00	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-87	Bean Conditioning	0.10	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-88	Flaking	0.57	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-89	Meal Dryer	1.50	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-90	Meal Cooler	1.80	0.00	0.00	0.00	0.00	Tons grain received
3-02-007-91	Bulk Loading	0.27	0.00	0.00	0.00	0.00	Tons grain received
Peanut Processing - 2076, 2079, 2099							
3-02-017-99	Not Classified (Specify in Comments)						Tons processed
Fish Processing - 2077, 2091							
3-02-012-01	Cookers-Fresh Fish Scrap	0.00			0.03		Tons fish processed
3-02-012-02	Cookers-Stale Fish Scrap	0.00			3.50		Tons fish processed
3-02-012-03	Dryers	0.10					Tons fish processed
3-02-012-04	Canning Cookers	0.00					Tons fish processed
Beer Production - 2082							
3-02-009-01	Grain Handling	3.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-009-02	Drying Spent Grains	5.00					Tons grain processed
3-02-009-03	Brewing						1000 gallons
Wines, Brandy, and Brandy Spirits - 2084							
3-02-011-99	Not Classified (Specify in Comments)	0.00			0.00		Gallons produced
Whiskey Fermentation - 2085							
3-02-010-01	Grain Handling	3.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-010-02	Drying Spent Grains	5.00					Tons grain processed
3-02-010-03	Aging	0.00	0.00	0.00	10.00	0.00	Barrel-year of stored whiskey

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 20 - FOOD AND KINDRED PRODUCTS (CONTINUED)							
Coffee Roasting - 2095							
3-02-002-01	Direct Fired Roaster	7.60		0.10			Tons green beans
3-02-002-02	Indirect Fired Roaster	4.20		0.10			Tons green beans
3-02-002-03	Stoner/Cooler	1.40		0.00			Tons green beans
3-02-002-99	Other/Not Classified (Specify in Comments)						Tons product
Instant Coffee Products - 2095							
3-02-003-01	Spray Dryer	1.40					Tons green beans
Other/Not Classified - 2099							
3-02-999-98	Specify in Comments						Tons processed (input)
3-02-999-99	Specify in Comments						Tons produced (finished)

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 21 - TOBACCO MANUFACTURERS							
Tobacco Processing - 2111, 2121, 2131, 2141							
3-02-033-99	Not Classified (Specify in Comments)						Tons product

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 22 - TEXTILE MILL PRODUCTS							
General Fabrics - 2261, 2262, 2284, 2297, 2299, 2281, 2282, 2283, 2291, 2294							
3-30-001-01	Yarn Prep/Bleach						Tons processed
3-30-001-02	Printing (Specific Process SCC's are found in Major Group 27)						Tons processed
3-30-001-03	Polyester Thread Production						Tons processed
3-30-001-04	Tenter Frames (Heat Setting)						Tons processed
3-30-001-05	Carding						Tons processed
3-30-001-99	Other/Not Classified (Specify in Comments)						Tons processed
Carpet Operations - 2271, 2272, 2279							
3-30-003-99	Not Classified (Specify in Comments)						Tons processed

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_X	NO_x	HC	CO	UNITS
MAJOR GROUP 24 - LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE[1]							
Sawmill Operations - 2421, 2426, 2429							
3-07-008-99	Not Classified (Specify in Comments)						Tons processed
Plywood/Particle Board - 2435, 2436, 2492							
3-07-007-01	Veneer Dryers	0.00	0.00		2.10	0.00	10,000 sq. ft. of 3/8 in. plywood produced
3-07-007-02	Sand Operations		0.00	0.00	0.00	0.00	Tons processed
3-07-007-03	Particle-Board Drying Operation	0.60	0.00	0.00	0.00	0.00	Tons of finished product
3-07-007-99	Other/Not Classified (Specify in Comments)						Tons processed
Wood Pressure Treating - 2491							
3-07-005-01	Creosote						Tons wood treated
3-07-005-99	Other/Not Classified (Specify in Comments)						Tons wood treated
Miscellaneous Woodworking Operations - 2421, 2426, 2429, 2431, 2434, 2439							
3-07-030-99	Sanding/Planning Operations (Specify in Comments)						Tons processed

[1] For Surface Coating Operations, see Part I, page C-13.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 25 - FURNITURE AND FIXTURES							
Furniture Manufacturing - 2500-2599[1]							
3-07-030-99	Sanding/Planing Operations (Specify in Comments)						Tons processed
3-07-020-99	Other/Not Classified (Specify in Comments)						Tons processed

[1] For Surface Coating Operations, see Part I, page C-13.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 26 - PAPER AND ALLIED PRODUCTS							
Sulfate (Kraft) Pulping - 2611, 2621, 2631 (For Bark Boilers, see Part I)							
3-07-001-01	Digester Relief and Blow Tank	0.00	0.00			0.00	Air-dry tons unbleached pulp
3-07-001-02	Washers/Screens	0.00	0.01			0.00	Air-dry tons unbleached pulp
3-07-001-03	Multi-Effect Evaporator	0.00	0.01			0.00	Air-dry tons unbleached pulp
3-07-001-04	Recovery Furnace/Direct-Contact Evaporator	150.0	5.00	1.00		31.0	Air-dry tons unbleached pulp
3-07-001-05	Smelt Dissolving Tank	5.00	0.10			0.00	Air-dry tons unbleached pulp
3-07-001-06	Lime Kiln	45.0	0.30	1.00		10.0	Air-dry tons unbleached pulp
3-07-001-07	Turpentine Condenser	0.00	0.00	0.00		0.00	Air-dry tons unbleached pulp
3-07-001-08	Fluid Bed Calciner	72.0					Air-dry tons unbleached pulp
3-07-001-09	Liquor Oxidation Tower						Air-dry tons unbleached pulp
3-07-001-99	Other/Not Classified (Specify in Comments)						Air-dry tons unbleached pulp
Sulfite Pulping - 2611, 2621, 2631							
3-07-002-03	Digester/Blow Pit/Dump Tank (All bases except Ca)	0.00	40.0				Air-dry tons unbleached pulp
3-07-002-11	Digester/Blow Pit/Dump Tank (Ca)	0.00	67.0				Air-dry tons unbleached pulp
3-07-002-12	Digester/Blow Pit/Dump Tank (MgO with Recovery System)	0.00	0.00				Air-dry tons unbleached pulp
3-07-002-13	Digester/Blow Pit/Dump Tank (MgO w/Process Change and Scrubber)[1]	0.00	0.20				Air-dry tons unbleached pulp
3-07-002-14	Digester/Blow Pit/Dump Tank (NH_3 w/Process Change and Scrubber)[1]	0.00	0.40				Air-dry tons unbleached pulp
3-07-002-15	Digester/Blow Pit/Dump Tank (Na w/Process Change and Scrubber)[1]	0.00	2.00				Air-dry tons unbleached pulp
3-07-002-21	Recovery System (MgO)						Air-dry tons unbleached pulp
3-07-002-22	Recovery System (NH_3)						Air-dry tons unbleached pulp
3-07-002-23	Recovery System (Na)						Air-dry tons unbleached pulp
3-07-002-31	Acid Plant (NH_3)						Air-dry tons unbleached pulp
3-07-002-32	Acid Plant (Na)						Air-dry tons unbleached pulp
3-07-002-33	Acid Plant (Ca)						Air-dry tons unbleached pulp
3-07-002-34	Other Misc. Sources - Knotters/ Washers/Screens, etc.	0.00	12.0				Air-dry tons unbleached pulp

[1] Process changes may include such measures as raising the pH of the cooking liquor, thereby lowering the free SO_2, relieving the pressure in the digester before the contents are discharged, and pumping out the digester contents instead of blowing them out.

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 26 - PAPER AND ALLIED PRODUCTS (Continued)							
Neutral Sulfite Semichemical Pulping - 2611, 2621, 2531 (Bark Boilers Contained Elsewhere)							
3-07-003-01	Digester/Dump Tank/Blow Pit						Air-dry tons unbleached pulp
3-07-003-02	Evaporator						Air-dry tons unbleached pulp
3-07-003-03	Fluid Bed Reactor						Air-dry tons unbleached pulp
3-07-003-04	Sulfur Burner/Absorbers						Air-dry tons unbleached pulp
Pulpboard Manufacture - 2631, 2661							
3-07-004-01	Paperboard - General	0.00					Tons finished product
3-07-004-02	Fiberboard - General	0.60					Tons finished product

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 27 - PRINTING, PUBLISHING, AND ALLIED INDUSTRIES							
Dryers - 2711 thru 2782							
4-05-001-01	Dryer	0.00	0.00	0.00		0.00	
Printing - 2751, 2752, 2754							
4-05-002-01	Letter Press-2751	0.00	0.00	0.00	700.0	0.00	Tons Ink
4-05-003-01	Flexographic-2751	0.00	0.00	0.00	1300.0	0.00	Tons Ink
4-05-004-01	Lithographic-2752	0.00	0.00	0.00	700.0	0.00	Tons Ink
4-05-005-01	Gravure-2754	0.00	0.00	0.00	1300.	0.00	Tons Ink
Ink Thinning Solvents - These solvents are often added by the user to the inks used in the printing processes above. Thus, the solvent SCC's should not be used alone, but rather in conjunction with one of the printing process SCC's above.							
4-05-003-02	Carbitol	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-003-03	Cellosolve	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-005-02	Dimethylformamide	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-005-03	Ethyl Acetate	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-003-04	Ethyl Alcohol	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-003-05	Isopropyl Alcohol	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-002-02	Kerosene	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-005-06	Methyl Ethyl Ketone	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-005-07	Methyl Isobutyl Ketone	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-002-03	Mineral Spirits	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-003-07	Naphtha	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-003-06	N-Propyl Alcohol	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-005-10	Toluene	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
4-05-005-99	Other/Not Classified (Specify in Comments)	0.00	0.00	0.00	2000.	0.00	Tons Solvent Added
Typesetting (Lead Remelting) - 2791							
3-60-001-01	Remelting (Lead Emissions Only)						Tons Melted

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICALS AND ALLIED PRODUCTS							
GROUP 281 - INDUSTRIAL INORGANIC CHEMICALS[1]							
Chloro-Alkali Production - 2812							
3-01-008-01	Liquefaction (Diaphram Cell Process)		0.00				100 tons chlorine liquified
3-01-008-02	Liquefaction (Mercury Cell Process)		0.00				100 tons chlorine liquified
3-01-008-03	Chlorine Loading: Tank Car Vents	0.00	0.00	0.00	0.00	0.00	100 tons chlorine liquified
3-01-008-04	Chlorine Loading: Storage Tank Vents	0.00	0.00	0.00	0.00	0.00	100 tons chlorine liquified
3-01-008-05	Air Blowing of Mercury Cell Brine	0.00	0.00	0.00	0.00	0.00	100 tons chlorine liquified
Sodium Carbonate - 2812							
3-01-021-01	Solvay Process - NH_3 Recovery	0.00					Tons produced
3-01-021-02	Solvay - Handling	6.00					Tons produced
3-01-021-10	Trona Process: Calcining						Tons produced
3-01-021-11	Trona Process: Drying						Tons produced
3-01-021-20	Brine Evaporation						Tons produced
3-01-021-99	Other/Not Classified (Specify in Comments)						Tons produced
Inorganic Pigments - 2816							
3-01-035-01	Calcination of Titanium Dioxide						Tons produced
3-01-035-02	Lead Oxide						Tons produced
3-01-035-99	Other/Not Classified (Specify in Comments)						Tons produced
Calcium Carbide - 2819							
3-05-004-01	Electric Furnace (Hoods & Main Stack)	38.0	3.00				Tons produced
3-05-004-02	Coke Dryer	2.00	3.00				Tons produced
3-05-004-03	Furnace Room Vents	26.0					Tons produced
Hydrochloric Acid - 2819							
3-01-011-01	By-Product Process (Without Final Scrubber)		0.00				Tons final acid
Hydrofluoric Acid - 2819							
3-01-012-02	Rotary Kiln	0.00					Tons acid
3-01-012-03	Fluorspar Grinding and Drying (Controlled)	20.0					Tons flourspar
Elemental Sulfur Production - 2819[2]							
3-01-032-01	Mod. Clause-2-Stage w/o Control (92-95% Removal)		280.0				Tons 100% sulfur
3-01-032-02	Mod. Clause-3-Stage w/o Control (95-96% Removal)		189.0				Tons 100% sulfur
3-01-032-03	Mod. Clause-4-Stage w/o Control (96-97% Removal)		145.0				Tons 100% sulfur
3-01-032-04	Sulfur Removal Process (99.9% Removal)		4.00				Tons 100% sulfur

[1] Agricultural chemicals may be found in Part II, SIC Group 287.

[2] Also applies to sulfur recovery plant at petroleum refineries and natural gas production fields.

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICALS AND ALLIED PRODUCTS (Continued)							
GROUP 281 - INDUSTRIAL INORGANIC CHEMICALS							
Sulfuric Acid, Chamber Process - 2819							
3-01-022-01	General				0.00		Tons of pure acid produced
Sulfuric Acid - Contact Process - 2819							
3-01-023-01	Absorber/@ 99.9% Conversion	2.50	4.00				Tons 100% H_2SO_4
3-01-023-04	Absorber/@ 99.5% Conversion	2.50	7.00				Tons 100% H_2SO_4
3-01-023-06	Absorber/@ 99.0% Conversion	2.50	14.0				Tons 100% H_2SO_4
3-01-023-08	Absorber/@ 98.0% Conversion	2.50	27.0				Tons 100% H_2SO_4
3-01-023-10	Absorber/@ 97.0% Conversion	2.50	40.0				Tons 100% H_2SO_4
3-01-023-12	Absorber/@ 96.0% Conversion	2.00	55.0				Tons 100% H_2SO_4
3-01-023-14	Absorber/@ 95.0% Conversion	2.50	70.0				Tons 100% H_2SO_4
3-01-023-16	Absorber/@ 94.0% Conversion	2.50	82.0				Tons 100% H_2SO_4
3-01-023-18	Absorber/@ 93.0% Conversion	2.50	96.0				Tons 100% H_2SO_4
3-01-023-19	Concentrator						Tons 100% H_2SO_4
3-01-023-20	Tank Car and Truck Loading						Tons 100% H_2SO_4 loaded
3-01-023-21	Storage Tank Vents						Tons 100% H_2SO_4 stored
3-01-023-22	Leaks in Process Equipment						Tons 100% H_2SO_4
GROUP 282 - PLASTIC MATERIALS AND SYNTHETIC RESINS, RUBBERS, AND FIBERS							
Plastics Production (Manufacturing Only) - 2821							
3-01-018-01	Polyvinyl Chlorides and Copolymers	35.0			17.0		Tons product
3-01-018-02	Polypropylene & Copolymers	3.00			0.70		Tons product
3-01-018-03	Ethylene-Propylene Copolymers						Tons product
3-01-018-05	Phenolic Resins						Tons product
3-01-018-07	Polyethylene (high density)						Tons product
3-01-018-12	Polyethylene (low density)						Tons product
3-01-018-17	Polystyrene						Tons product
3-01-018-22	Acrylic Resins						Tons product
3-01-018-27	Polyamide Resins						Tons product
3-01-018-32	Urea Formaldehyde Resins						Tons product
3-01-018-37	Polyester Resins						Tons product
3-01-018-42	Melamine Resins						Tons product
3-01-018-47	Epoxy Resins						Tons product
3-01-018-52	Polyfluorocarbons						Tons product
3-01-018-99	Other/Not Classified (Specify in Comments)						Tons product

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICALS AND ALLIED PRODUCTS (Continued)							
GROUP 282 - PLASTIC MATERIAL AND SYNTHETIC RESINS, RUBBERS, AND FIBERS							
Synthetic Rubber (Manufacturing Only) - 2822							
3-01-026-01	Butadiene				40.00		Tons product
3-01-026-02	Methyl Propene (IsoButylene)				15.0		Tons product
3-01-026-08	Acrylonitrile				17.0		Tons product
3-01-026-15	Isoprene						Tons product
3-01-026-25	Chloroprene						Tons product
3-01-026-30	Silicone Rubber						Tons product
3-01-026-99	Other/Not Classified (Specify in Comments)						Tons product
Cellulosic Fiber Production - 2823							
3-01-025-01	Viscose (e.g., Rayon)				0.00		Tons fiber
3-01-025-05	Acetate						Tons produced
Synthetic Organic Fiber Production (Manufacturing Only) - 2824							
3-01-024-01	Polyamide (e.g., Nylon)				7.00		Tons fiber
3-01-024-02	Polyesters (e.g., Dacron)				0.00		Tons fiber
3-01-024-05	Polyfluorocarbons (e.g., Teflon)						Tons product
3-01-024-10	Acrylics (e.g., Orlon)						Tons product
3-01-024-14	Polyolefins (e.g., Polypropylene)						Tons product
3-01-024-15	Vinyls (e.g., Saran)						Tons product
GROUP 283 - DRUGS							
Pharmaceutical Preparations - 2834							
3-01-060-99	Not Classified (Specify in Comments)						Hundreds of pounds produced

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICAL AND ALLIED PRODUCTS (CONTINUED)							
GROUP 284 - SOAP, DETERGENTS AND CLEANING PREPARATIONS, ETC.							
Cleaning Chemicals - 2841, 2842							
3-01-009-01	Spray Drying: Soaps and Detergents	90.0					Tons produced
3-01-009-02	Specialty Cleaners						Tons product
3-01-009-99	Other/Not Classified						Tons produced
GROUP 285 - PAINTS, VARNISHES, LACQUERS, ENAMELS AND ALLIED PRODUCTS							
Paint Manufacture - 2851[1]							
3-01-014-01	General Mixing and Handling	2.00			30.0		Tons produced
3-01-014-99	Other/Not Classified (Specify in Comments)						Tons product
Varnish Manufacture - 2851							
3-01-015-01	Bodying Oil				40.0		Tons produced
3-01-015-02	Oleoresinous				150.0		Tons produced
3-01-015-03	Alkyd				160.0		Tons produced
3-01-015-05	Acrylic				20.0		Tons produced
3-01-015-99	Other/Not Classified (Specify in Comments)						Tons produced
GROUP 286 - INDUSTRIAL ORGANIC CHEMICALS							
Charcoal Manufacture - 2861							
3-01-006-01	Charcoal Manufacture w/o Chemical Recovery	400.0			484.0	320.0	Tons produced
3-01-006-02	Charcoal Manufacture w/ Chemical Recovery				100.0	320.0	Tons produced
Phthalic Anhydride - 2865							
3-01-019-01	O-xylene Oxidation: Main Process Stream (Reactor Condensers)	138.0	9.40	0.00	0.00	301.0	Tons produced
3-01-019-02	O-xylene Oxidation: Pre-treatment	13.0	0.00	0.00	0.00	0.00	Tons produced
3-01-019-04	O-xylene Oxidation: Distillation	89.0	0.00	0.00	2.40	0.00	Tons produced
3-01-019-05	Naphthalene Oxidation: Main Process Stream (Reactor/ Condensers)	56.0	0.00	0.00	0.00	100.0	Tons produced
3-01-019-06	Naphthalene Oxidation: Pre-Treatment	5.00	0.00	0.00	0.00	0.00	Tons produced
3-01-019-07	Naphthalene Oxidation: Distillation	38.0	0.00	0.00	10.0	0.00	Tons produced

[1] Manufacture of inorganic pigments is classified under Group 2816.

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICAL AND ALLIED PRODUCTS (CONTINUED)							
GROUP 286 - INDUSTRIAL ORGANIC CHEMICALS							
Adipic Acid - 2869							
3-01-001-01	Entire Adipic Acid Facility (Available as a Simplified Alternative to Codes 02-06 Below)	0.80	0.00	53.6	42.7	115.0	Tons of product
3-01-001-02	Raw Material Storage	0.00	0.00	0.00	2.2	0.00	Tons of product
3-01-001-03	Cyclohexane Oxidation	0.00	0.00	0.00	40.0	115.0	Tons of product
3-01-001-04	Nitric Acid Reaction	0.00	0.00	53.0	0.00	0.00	Tons of product
3-01-001-05	Adipic Acid Refining	0.10	0.00	0.60	0.50	0.00	Tons of product
3-01-001-06	Adipic Acid Drying/Loading and Storage	0.80	0.00	0.00	0.00	0.00	Tons of product
Terepthalic Acid Production - 2869							
3-01-031-01	HNO3- Paraxylene - General				13.0		Tons produced
3-01-031-99	Other/Not Classified (Specify in Comments)						Tons produced
Amines/Amides Production - 2869							
3-01-034-99	Not Classified (Specify in Comments)						Tons produced
Lead Alkyl Manufacture - (Sodium/Lead Alloy Process) - 2869							
3-01-042-01	Recovery Furnace						Tons produced
3-01-042-02	Process Vents (Tetraethyl Lead)						Tons produced
3-01-042-03	Process Vents (Tetramethyl Lead)						Tons produced
3-01-042-04	Sludge Pits						Tons produced
Lead Alkyl Manufacture - (Electrolytic Process) - 2869							
3-01-043-99	Not Classified (Specify in Comments)						Tons produced
Ketones Production - 2869							
3-01-091-01	Acetone						Tons produced
3-01-091-05	Methyl Ethyl Ketone						Tons produced
3-01-091-10	Methyl Isobutyl Ketone						Tons produced
3-01-091-99	Other/Not Classified (Specify in Comments)						Tons produced
Maleic Anhydride Production - 2869							
3-01-100-99	Not Classified (Specify in Comments)						Tons produced
Aldehydes Production - 2869							
3-01-120-01	Formaldehyde - Silver Catalyst						Tons produced
3-01-120-02	Formaldehyde - Mixed Oxide Catalyst						Tons produced
3-01-120-99	Other/Not Classified (Specify in Comments)						Tons produced
Organo Halogens Production - 2869							
3-01-125-01	Ethylene Dichloride via Oxychlorination						Tons produced
3-01-125-02	Ethylene Dichloride via Direct Chlorination						Tons produced
3-01-125-99	Other/Not Classified (Specify in Comments)						Tons produced

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 28 - CHEMICAL AND ALLIED PRODUCTS (Continued)							
GROUP 286 - INDUSTRIAL ORGANIC CHEMICALS (Continued)							
Organic Acids Production - 2869							
3-01-132-01	Acetic Acid via Methanol						Tons produced
3-01-132-05	Acetic Acid via Butane						Tons produced
3-01-132-10	Acetic Acid via Acetaldehyde						Tons produced
3-01-132-99	Other/Not Classified (Specify in Comments)						Tons produced
Esters Production							
3-01-137-99	Acrylates - Not Classified (Specify in Comments)						Tons produced
3-01-167-99	Acetates - Not Classified (Specify in Comments)						Tons produced
Olefins Production - 2869							
3-01-197-01	Ethylene						Tons produced
3-01-197-05	Propylene						Tons produced
3-01-197-10	Butylene						Tons produced
3-01-197-99	Other/Not Classified (Specify in Comments)						Tons produced
Alcohols Production - 2869							
3-01-250-01	Methanol						Tons produced
3-01-250-99	Other/Not Classified (Specify in Comments)						Tons produced
Nitriles Production - 2869							
3-01-254-01	Acetonitrile						Tons produced
3-01-254-05	Acrylonitrile						Tons produced
3-01-254-10	Adiponitrile via Adipic Acid						Tons produced
3-01-254-15	Adiponitrile via Butadiene						Tons produced
3-01-254-99	Other/Not Classified (Specify in Comments)						Tons produced
Aromatics Production - 2869							
3-01-258-01	Benzene						Tons produced
3-01-258-05	Toluene						Tons produced
3-01-258-10	p-Xylene						Tons produced
3-01-258-15	Mixed Xylenes						Tons produced
3-01-258-99	Other/Not Classified (Specify in Comments)						Tons produced

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICAL AND ALLIED PRODUCTS (Continued)							
GROUP 287 - AGRICULTURAL CHEMICALS							
Ammonia Production (With Methanator) - 2873							
3-01-002-01	Reactor Purging	0.00	0.00	0.00	90.0	0.00	Tons produced
Ammonia Production (With CO-Absorber) - 2873							
3-01-003-01	Regenerator Exit Gas	0.00	0.00	0.00	0.00	200.0	Tons produced
3-01-003-02	Reactor Purging	0.00	0.00	0.00	90.0	0.00	Tons produced
Nitric Acid - 2873							
3-01-013-01	Absorber Tail Gas (Pre-1970 Facilities)			52.5			Tons pure acid produced
3-01-013-02	Absorber Tail Gas (Post-1970 Facilities)			7.50			Tons pure acid produced
3-01-013-03	Nitric Acid Concentration (Pre-1970 Facilities)			5.00			Tons pure acid produced
3-01-013-04	Nitric Acid Concentration (Post-1970 Facilities)			0.20			Tons pure acid produced
Ammonium Nitrate Production (With Granulator) - 2873							
3-01-027-04	Neutralizer						Tons produced
3-01-027-05	Granulator	0.40		0.90			Tons produced
3-01-027-06	Dryers and Coolers	7.00		3.00			Tons produced
Ammonium Nitrate Production (With Prilling Tower) - 2873							
3-01-027-09	Bulk Loading (General)	0.02					Tons produced
3-01-027-11	Neutralizer (High Density)	3.30					Tons produced
3-01-027-12	Prilling Tower (High Density)	2.70					Tons produced
3-01-027-13	Dryers and Coolers (High Density)	0.10					Tons produced
3-01-027-17	Evaporator/Concentrator (High Density)	0.94					Tons produced
3-01-027-18	Coating (High Density)	4.00					Tons produced
3-01-027-21	Neutralizer (Low Density)	0.08					Tons produced
3-01-027-22	Prilling Tower (Low Density)	1.00					Tons produced
3-01-027-23	Dryers and Coolers (Low Density)	0.08					Tons produced
3-01-027-27	Evaporator/Concentrator (Low Density)	0.18					Tons produced
3-01-027-28	Coating (Low Density)	6.00					Tons produced
Urea Production - 2873							
3-01-040-01	Not Classified (Specify in Comments)						Tons produced
Phosphoric Acid: Wet Process - 2874							
3-01-016-01	Reactor	0.00					Tons phosphate rock
3-01-016-02	Gypsum Pond	0.00					Tons phosphate rock
3-01-016-03	Condensor	0.00					Tons phosphate rock
Phosphoric Acid: Thermal Process - 2874							
3-01-017-02	Absorber						Tons phosphorous burned

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICAL AND ALLIED PRODUCTS (CONTINUED)							
GROUP 287 - AGRICULTURAL CHEMICALS							
Normal Superphosphate Production - 2874							
3-01-028-01	Grinding and Drying	9.00					Tons produced
3-01-028-02	Main Stack						Tons produced
Triple Superphosphate Production - 2874 (Also Called Double or Concentrated Superphosphate)							
3-01-029-01	"Run-of-Pile" (ROP) Product						Tons produced
3-01-029-02	Granular Product						Tons produced
Diamonium Phosphate Production - 2874							
3-01-030-01	Dryers and Coolers	80.0					Tons produced
3-01-030-02	Ammoniator/Granulator	2.00					Tons produced
Monammonium Phosphate Production - 2874							
3-01-044-01	Ammoniator/Granulator						Tons produced
3-01-044-02	Dryers and Coolers						Tons produced
Pesticides - 2879							
3-01-033-01	Malathion						Gallons of product
3-01-033-99	Other/Not Classified (Specify in Comments)						Tons produced

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 28 - CHEMICAL AND ALLIED PRODUCTS (Continued)							
GROUP 289 - MISCELLANEOUS CHEMICAL PRODUCTS							
Explosives - Trinitro Toluene - 2892							
3-01-010-11	Batch Process - Nitration Reactors Fume Recovery			25.0			Tons produced
3-01-010-12	Batch Process - Nitration Reactors Acid Recovery			55.0			Tons produced
3-01-010-13	Batch Process - Nitric Acid Concentrators			37.0			Tons produced
3-01-010-14	Batch Process - Sulfuric Acid Concentrators - Electrostatic Precipitators (Exit)		14.0	40.0			Tons produced
3-01-010-15	Batch Process - Red Water Incinerator	25.0	2.00	26.0			Tons produced
3-01-010-21	Continuous Process - Nitration Reactors - (Fume Recovery)			8.00			Tons produced
3-01-010-22	Continuous Process - Nitration Reactors (Acid Recovery)			3.00			Tons produced
3-01-010-23	Continuous Process - Red Water Incinerator	0.25	0.24	7.00			Tons produced
Nitrocellulose - 2892							
3-01-041-01	Nitration Reactors	0.00	1.40	14.0	0.00	0.00	Tons produced
3-01-041-02	Sulfuric Acid Concentrator	0.00	68.0	0.00	0.00	0.00	Tons produced
3-01-041-03	Boiling Tubs	0.00	0.00	2.00	0.00	0.00	Tons produced
3-01-041-04	Nitric Acid Concentrator	0.00	0.00	14.0	0.00	0.00	Tons produced
Printing Ink Manufacture - 2893							
3-01-020-01	Vehicle Cooking: General	0.00			120.0		Tons produced
3-01-020-02	Vehicle Cooking: Oils	0.00			40.0		Tons produced
3-01-020-03	Vehicle Cooking: Oleoresin	0.00			150.0		Tons produced
3-01-020-04	Vehicle Cooking: Alkyds	0.00			160.0		Tons produced
3-01-020-05	Pigment Mixing	2.00					Tons produced
Carbon Black Production - 2895							
3-01-005-01	Channel Process	2,300.	0.00	0.00	11,500.	33,500.	Tons produced
3-01-005-02	Thermal Process	0.00	0.00	0.00	0.00	0.00	Tons produced
3-01-005-03	Gas Furnace Process (Main Process Vent)	10.0	0.00		1,800.	5,300.	Tons produced
3-01-005-04	Oil Furnace Process (Main Process Vent)	6.00	0.00	0.40	200.0	2,600.	Tons produced
3-01-005-06	Transport Air Vent		0.00	0.00	0.00	0.00	Tons produced
3-01-005-07	Pellet Dryer						Tons produced
3-01-005-08	Bagging/Loading		0.00	0.00	0.00	0.00	Tons produced
Frit Manufacture - 2899							
3-05-013-01	Rotary Furnace	16.0					Tons charged
3-05-013-99	Other/Not Classified (Specify in Comments)						Tons charged

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 28 - CHEMICAL AND ALLIED PRODUCTS (CONTINUED)							
GROUP 289 - MISCELLANEOUS CHEMICAL PRODUCTS							
Waste Gas Flares							
3-01-900-99	Not Classified (Specify in Comments)						Million cubic feet burned
Chemical and Allied Products - Not Classified							
3-01-999-99	Not Classified (Specify in Comments)						Tons produced

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT: PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 29 - PETROLEUM REFINING AND RELATED INDUSTRIES[1]							
Process Heaters - 2911							
3-06-001-03	Oil Fired	20.0	159.0 S	69.0	1.00	5.00	1000 gallons oil burned
3-06-001-04	Gas Fired	20.0	830.0 S	230.0	3.00	20.0	Million cubic feet gas burned
Fluid Catalytic Cracking Units (FCC) - 2911							
3-06-002-01	Fluid Catalytic Cracking Unit	242.0	493.0	71.0	220.0[2]	13700.[2]	1000 bbls fresh feed
Moving Bed Catalytic Cracking Units (TCC) - 2911							
3-06-003-01	Thermal Catalytic Cracking Unit	17.0	60.0	5.00	87.0[2]	3800.	1000 bbls fresh feed
Blowdown Systems - 2911							
3-06-004-01	Blowdown System with Vapor Recovery System and Flaring	0.00	26.9	18.90	0.80	4.30	1000 bbls refinery feed
3-06-004-02	Blowdown System without Controls	0.00	0.00	0.00	580.0	0.00	1000 bbls refinery feed
Asphalt Blowing - 2911							
3-06-011-01	Asphalt Blowing		0.00	0.00	60.0	0.00	Tons of asphalt produced
Vacuum Distillation Column Condensors - 2911							
3-06-006-02	Vacuum Distillation Column Condensor	0.00	0.00	0.00	50.0	0.00	1000 bbls vacuum feed
3-06-006-03	Vacuum Distillation Column Condensor	0.00	0.00	0.00	18.0	0.00	1000 bbls refinery feed
Cooling Towers - 2911							
3-06-007-01	Cooling Towers	0.00	0.00	0.00	6.0	0.00	Million gallons cooling water
3-06-007-02	Cooling Towers	0.00	0.00	0.00	10.0	0.00	1000 bbls refinery feed
Fluid Coking Units - 2911							
3-06-012-01	Fluid Coking Units	523.0					1000 bbls fresh feed
Fugitive Hydrocarbon Emissions from Petroleum Refining - 2911							
3-06-005-03	Process Drains and Waste Water Separators	0.00	0.00	0.00	5.00	0.00	1000 gallons waste water
3-06-005-04	Process Drains and Waste Water Separators	0.00	0.00	0.00	200.0	0.00	1000 bbls refinery feed

'S' indicates the sulfur content of the fuel on a percent-by-weight basis.

[1] Several processes that routinely occur in Major Group 29 can be found under other Major Groups. Specifically, note the following:

- o waste or process gas and/or liquid fired boilers - Part I, page C-5.
- o internal combustion compressor engines - Part I, page C-9.
- o amine sweetening process - Part II, SIC 1311.
- o sulfur recovery process - Part II, SIC 2819.
- o sulfuric acid plant - Part II, SIC 2819.

[2] Represents total CO and HC generated. Report control device as 022 if CO boiler is present to properly account for actual emissions.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 29 - PETROLEUM REFINING AND RELATED INDUSTRIES (CONTINUED)							
Fugitive Hydrocarbon Emissions from Petroleum Refining - 2911							
3-06-005-05	Waste Water Treatment Plant Excluding Separator	0.00	0.00	0.00		0.00	1000 gallons waste water
3-06-005-06	Waste Water Treatment Plant Excluding Separator	0.00	0.00	0.00		0.00	1000 bbls refinery feed
3-06-008-01	Pipeline Valves and Flanges	0.00	0.00	0.00	28.0	0.00	1000 bbls refinery feed
3-06-008-02	Vessel Relief Valves	0.00	0.00	0.00	11.0	0.00	1000 bbls refinery feed
3-06-008-03	Pump Seals w/o Control	0.00	0.00	0.00	17.0	0.00	1000 bbls refinery feed
3-06-008-06	Pump Seals w/Control	0.00	0.00	0.00	10.0	0.00	1000 bbls refinery feed
3-06-008-04	Compressor Seals	0.00	0.00	0.00	5.00	0.00	1000 bbls refinery feed
3-06-008-05	Miscellaneous: Sampling/Non-Asphalt Blowing, Purging, etc.	0.00	0.00	0.00	10.0	0.00	1000 bbls refinery feed
3-06-008-07	Blind Changing	0.00	0.00	0.00	0.30	0.00	1000 bbls refinery feed
Storage of Petroleum Products (Refineries Oil and Gas Fields Only) - 2911, 2992, 1311, 1321[1]							
Fixed Roof[2]							
4-03-010-01	Gasoline RVP13[3]: Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	109.5	0.00	1000 gallons storage capacity
4-03-010-02	Gasoline RVP10: Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	84.0	0.00	1000 gallons storage capacity
4-03-010-03	Gasoline RVP7: Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	58.4	0.00	1000 gallons storage capacity
4-03-010-04	Gasoline RVP13: Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	80.3	0.00	1000 gallons storage capacity
4-03-010-05	Gasoline RVP10: Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	62.1	0.00	1000 gallons storage capacity
4-03-010-06	Gasoline RVP7: Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	43.8	0.00	1000 gallons storage capacity
4-03-010-07	Gasoline RVP13: Working Loss (Independent of Tank Diameter)	0.00	0.00	0.00	10.0	0.00	1000 gallons throughput
4-03-010-08	Gasoline RVP10: Working Loss (Independent of Tank Diameter)	0.00	0.00	0.00	8.20	0.00	1000 gallons throughput
4-03-010-09	Gasoline RVP7: Working Loss (Independent of Tank Diameter)	0.00	0.00	0.00	5.70	0.00	1000 gallons throughput
4-03-010-10	Crude Oil RVP5: Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	23.4	0.00	1000 gallons storage capacity
4-03-010-11	Crude Oil RVP5: Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	16.8	0.00	1000 gallons storage capacity
4-03-010-12	Crude Oil RVP5: Working Loss	0.00	0.00	0.00	2.80	0.00	1000 gallons throughput

[1] The tank sizes of 67,000 and 250,000 bbl's specified below represent approximate size ranges. The emission factors may be applied to tanks of approximately the same size. See AP-42, Section 4.3.3.

[2] Emission factors for the fixed roof storage tanks breathing loss are for 'new' tank conditions only, i.e., Paint Factor = 1.0. For 'old' tank conditions the emission factor is increased by approximately 13%.

[3] RVP = Reid vapor pressure is the absolute pressure of gasoline at 100°F in psia as determined by ASTM method D323-72.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 29 - PETROLEUM REFINING AND RELATED INDUSTRIES (CONTINUED)							
Storage of Petroleum Products (Refineries and Oil and Gas Fields Only) 2911, 2992, 1311, 1321							
Fixed Roof[1]							
4-03-010-13	Jet Naphtha (JP-4): Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	31.4	0.00	1000 gallons storage capacity
4-03-010-14	Jet Naphtha (JP-4): Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	22.6	0.00	1000 gallons storage capacity
4-03-010-15	Jet Naphtha (JP-4): Working Loss	0.00	0.00	0.00	2.50	0.00	1000 gallons throughput
4-03-010-16	Jet Kerosene: Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	1.60	0.00	1000 gallons storage capacity
4-03-010-17	Jet Kerosene: Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	1.10	0.00	1000 gallons storage capacity
4-03-010-18	Jet Kerosene: Working Loss	0.00	0.00	0.00	0.03	0.00	1000 gallons throughput
4-03-010-19	Distillate Fuel No. 2: Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	1.40	0.00	1000 gallons storage capacity
4-03-010-20	Distillate Fuel No. 2: Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	1.02	0.00	1000 gallons storage capacity
4-03-010-21	Distillate Fuel No. 2: Working Loss	0.00	0.00	0.00	0.023	0.00	1000 gallons throughput
4-03-010-97	Specify Liquid: Breathing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00		0.00	1000 gallons storage capacity
4-03-010-98	Specify Liquid: Breathing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00		0.00	1000 gallons storage capacity
4-03-010-99	Specify Liquid: Working Loss	0.00	0.00	0.00		0.00	1000 gallons throughput
Floating Roof Tanks[2]							
4-03-011-01	Gasoline RVP13: Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	16.1	0.00	1000 gallons storage capacity
4-03-011-02	Gasoline RVP10: Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	12.0	0.00	1000 gallons storage capacity
4-03-011-03	Gasoline RVP7: Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	8.40	0.00	1000 gallons storage capacity
4-03-011-04	Gasoline RVP13: Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	9.10	0.00	1000 gallons storage capacity
4-03-011-05	Gasoline RVP7: Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	6.90	0.00	1000 gallons storage capacity
4-03-011-06	Gasoline RVP7: Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	4.70	0.00	1000 gallons storage capacity
4-03-011-07	Gasoline RVP13: Withdrawal Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	0.023	0.00	1000 gallons throughput
4-03-011-08	Gasoline RVP13/RVP10/RVP7: Withdrawal Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	0.013	0.00	1000 gallons throughput

[1] Emission factors for the fixed roof storage tank breathing loss are for 'new' tank conditions only, i.e., Paint Factor= 1.0. For 'old' tank conditions the emission factor is increased by approximately 13%.

[2] Emission factors for the floating roof storage tanks standing loss are for 'new' tank conditions only. For 'old' tank conditions the emission factor is increased by approximately 229%.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 29 - PETROLEUM REFINING AND RELATED INDUSTRIES (CONTINUED)							
Floating Roof Tanks[1]							
4-03-011-09	Crude Oil RVP5: Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	4.38	0.00	1000 gallons storage capacity
4-03-011-10	Crude Oil RVP5: Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	2.81	0.00	1000 gallons storage capacity
4-03-011-11	Jet Naphtha (JP-4): Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	4.38	0.00	1000 gallons storage capacity
4-03-011-12	Jet Naphtha (JP-4): Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	2.48	0.00	1000 gallons storage capacity
4-03-011-13	Jet Kerosene: Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	0.20	0.00	1000 gallons storage capacity
4-03-011-14	Jet Kerosene: Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	0.11	0.00	1000 gallons storage capacity
4-03-011-15	Distillate Fuel No. 2: Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00	0.18	0.00	1000 gallons storage capacity
4-03-011-16	Distillate Fuel No. 2: Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00	0.10	0.00	1000 gallons storage capacity
4-03-011-98	Specify Liquid: Standing Loss (67,000 bbl. Tank Size)	0.00	0.00	0.00		0.00	1000 gallons storage capacity
4-03-011-99	Specify Liquid: Standing Loss (250,000 bbl. Tank Size)	0.00	0.00	0.00		0.00	1000 gallons storage capacity
Variable Vapor Space Tanks - (10,500 bbl. Tank Size)							
4-03-012-01	Gasoline RVP13: Filling Loss	0.00	0.00	0.00	9.60	0.00	1000 gallons throughput
4-03-012-02	Gasoline RVP10: Filling Loss	0.00	0.00	0.00	7.70	0.00	1000 gallons throughput
4-03-012-03	Gasoline RVP7: Filling Loss	0.00	0.00	0.00	5.40	0.00	1000 gallons throughput
4-03-012-04	Jet Naphtha (JP-4): Filling Loss	0.00	0.00	0.00	2.30	0.00	1000 gallons throughput
4-03-012-05	Jet Kerosene: Filling Loss	0.00	0.00	0.00	0.025	0.00	1000 gallons throughput
4-03-012-06	Distillate Fuel No. 2: Filling Loss	0.00	0.00	0.00	0.022	0.00	1000 gallons throughput
4-03-012-99	Specify Liquid: Filling Loss	0.00	0.00	0.00		0.00	1000 gallons throughput

[1] Emission factors for the floating roof storage tanks standing loss are for 'new' tank conditions only. For 'old' tank conditions the emission factor is increased by approximately 229%.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 29 - PETROLEUM REFINING AND RELATED INDUSTRIES (CONTINUED)							
Asphaltic Concrete - 2951							
3-05-002-01	Rotary Dryer, Conventional Plant	45.0					Tons produced
3-05-002-02	Hot Elevators, Screens, Bins & Mixer						Tons produced
3-05-002-03	Storage Piles						Tons processed
3-05-002-04	Cold Aggregate Handling						Tons processed
3-05-002-05	Drum, Dryer Hot Asphalt Plants	4.90	0.00	0.00	0.00	0.00	Tons of asphalt produced
3-05-002-06	Asphalt Heater (Natural Gas)						Million cubic feet of gas burned
3-05-002-07	Asphalt Heater (Residual Oil)						1000 gallons of oil burned
3-05-002-08	Asphalt Heater (Distillate Oil)						1000 Gallons of oil burned
Asphalt Roofing Manufacture - 2952							
3-05-001-01	Blowing Operations	7.30	0.00	0.00	1.19	0.27	Tons of asphalt produced
3-05-001-05	Felt Saturation Operations	6.30	0.00	0.00	0.48	2.90	Tons saturated felt produced

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 30 - RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS							
Rubberized Fabric - 3069, 2241							
3-30-002-01	Impregnation						Tons processed
3-30-002-02	Wet Coating						Tons processed
3-30-002-03	Hot Melt Coating						Tons processed
3-30-002-99	Other/Not Classified (Specify in Comments)						Tons processed
Tire Manufacturing - 3011							
3-08-001-99	Not Classified (Specify in Comments)						Tons product
Other Fabricated Rubber Products - 3021, 3031, 3041, 3069							
3-08-006-99	Not Classified (Specify in Comments)						Tons product
Fabricated Plastic Products - 3079							
3-08-007-99	Not Classified (Specify in Comments)						Tons product

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 31 - LEATHER AND LEATHER PRODUCTS							
Leather and Leather Products - 3111 through 3199							
3-20-999-99	Not Classified (Specify in Comments)						Tons processed

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 32 - STONE, CLAY, GLASS, AND CONCRETE PRODUCTS							
GROUP 321 - 322: FLAT GLASS, CONTAINER GLASS, AND GLASSWARE PRESSED OR BLOWN							
Glass Manufacture - 3211, 3221, 3229							
3-05-014-02	Container Glass: Melting Furnace	1.40	3.40	6.20	0.20	0.20	Ton of glass produced
3-05-014-03	Flat Glass: Melting Furnace	2.00	1.00	8.00	0.10	0.10	Ton of glass produced
3-05-014-04	Pressed and Blown Glass: Melting Furnace	17.4	8.70	8.50	0.30	0.20	Ton of glass produced
3-05-014-06	Container Glass: Forming & Finishing		0.00	0.00	8.70	0.00	Ton of glass produced
3-05-014-07	Flat Glass: Forming & Finishing		0.00	0.00		0.00	Ton of glass produced
3-05-014-08	Pressed and Blown Glass: Forming & Finishing		0.00	0.00	9.00	0.00	Ton of glass produced
3-05-014-10	Raw Materials Handling (All Types of Glass)		0.00	0.00	0.00	0.00	Ton of glass produced
Fiberglass (Manufacturing) - 3229, 3296							
3-05-012-01	Wool-Type Glass Fiber Regenerative Glass Furnace	21.5	10.0	5.00	0.00	0.25	Ton of material processed
3-05-012-02	Wool-Type Glass Fiber Recuperative Glass Furnace	28.3	9.50	1.70	0.00	0.25	Ton of material processed
3-05-012-03	Wool-Type Glass Fiber Electric Glass Furnace	0.60	0.04	0.27	0.00	0.05	Ton of material processed
3-05-012-04	Wool-Type Glass Fiber Forming Process	57.6			0.00		Ton of material processed
3-05-012-05	Wool-Type Glass Fiber Curing Oven Process	3.50		1.10	0.00	1.70	Ton of material processed
3-05-012-06	Wool-Type Glass Fiber Cooling Process	1.30		0.20	0.00	0.20	Ton of material processed
3-05-012-11	Textile-Type Glass Fiber Regenerative Glass Furnace	16.4	29.6	9.20	0.00	1.10	Ton of material processed
3-05-012-12	Textile-Type Glass Fiber Recuperative Glass Furnace	27.8	2.70	29.2	0.00	0.90	Ton of material processed
3-05-012-13	Textile-Type Glass Fiber Electric Glass Furnace				0.00		Ton of material processed
3-05-012-14	Textile-Type Glass Fiber Forming Operation	1.60			0.00		Ton of material processed
3-05-012-15	Textile-Type Glass Fiber Curing Oven Process	1.20		2.60	0.00	1.50	Ton of material processed
3-05-012-99	Other/Not Classified (Specify in Comments)						Ton of material processed

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 32 - STONE, CLAY, GLASS, AND CONCRETE PRODUCTS (CONTINUED)							
GROUP 324 - CEMENT MANUFACTURING							
Dry Process - 3241							
3-05-006-06	Kilns[1]	245.0	10.2	2.60			Tons of Cement produced
3-90-002-01	Bituminous Coal Used in Kilns	0.00	26.0 S	0.00	0.00	0.00	Tons burned
3-90-004-02	Residual Oil Used in Kilns	0.00	108.0 S	0.00	0.00	0.00	1000 gallons burned
3-90-005-02	Distillate Oil Used in Kilns	0.00	98.0 S	0.00	0.00	0.00	1000 gallons burned
3-90-006-02	Natural Gas Used in Kilns	0.00	0.00	0.00	0.00	0.00	Million cubic feet of gas burned
3-05-006-07	Raw Material Unloading		0.00	0.00	0.00	0.00	Tons of material unloaded
3-05-006-08	Raw Material Piles						Tons in piles
3-05-006-09	Primary Crushing		0.00	0.00	0.00	0.00	Tons processed
3-05-006-10	Secondary Crushing		0.00	0.00	0.00	0.00	Tons processed
3-05-006-11	Screening		0.00	0.00	0.00	0.00	Tons processed
3-05-006-12	Raw Material Transfer		0.00	0.00	0.00	0.00	Tons handled
3-05-006-13	Raw Material Grinding and Drying		0.00	0.00	0.00	0.00	Tons cement produced
3-05-006-14	Clinker Cooler		0.00	0.00	0.00	0.00	Tons cement produced
3-05-006-15	Clinker Piles		0.00	0.00	0.00	0.00	Tons cement produced
3-05-006-16	Clinker Transfer		0.00	0.00	0.00	0.00	Tons cement produced
3-05-006-17	Clinker Grinding		0.00	0.00	0.00	0.00	Tons cement produced
3-05-006-18	Cement Silos		0.00	0.00	0.00	0.00	Tons cement produced
3-05-006-19	Cement Load Out		0.00	0.00	0.00	0.00	Tons cement produced
Wet Process - 3241							
3-05-007-06	Kilns[1]	228.0	10.2	2.60	0.00	0.00	Tons cement produced
3-90-002-01	Bituminous Coal Used in Kilns	0.00	26.0 S	0.00	0.00	0.00	Tons burned
3-90-004-02	Residual Oil Used in Kilns	0.00	108.0 S	0.00	0.00	0.00	1000 gallons burned
3-90-005-02	Distillate Oil Used in Kilns	0.00	98.0 S	0.00	0.00	0.00	1000 gallons burned
3-90-006-02	Natural Gas Used in Kilns	0.00	0.00	0.00	0.00	0.00	Million cubic feet of gas burned
3-05-007-07	Raw Material Unloading		0.00	0.00	0.00	0.00	Tons of material unloaded
3-05-007-08	Raw Material Piles		0.00	0.00	0.00	0.00	Tons in piles
3-05-007-09	Primary Crushing		0.00	0.00	0.00	0.00	Tons processed
3-05-007-10	Secondary Crushing		0.00	0.00	0.00	0.00	Tons processed
3-05-007-11	Screening		0.00	0.00	0.00	0.00	Tons processed
3-05-007-12	Raw Material Transfer		0.00	0.00	0.00	0.00	Tons handled
3-05-007-14	Clinker Cooler		0.00	0.00	0.00	0.00	Tons cement produced
3-05-007-15	Clinker Piles		0.00	0.00	0.00	0.00	Tons cement produced
3-05-007-16	Clinker Transfer		0.00	0.00	0.00	0.00	Tons cement produced
3-05-007-17	Clinker Grinding		0.00	0.00	0.00	0.00	Tons cement produced
3-05-007-18	Cement Silo		0.00	0.00	0.00	0.00	Tons cement produced
3-05-007-19	Cement Loadout		0.00	0.00	0.00	0.00	Tons cement produced

'S' is the weight percent sulfur in the fuel.

[1] Use kiln code and appropriate 3-90 code for fuel used in kilns to properly account for all SO_x emissions.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 32 - STONE, CLAY, GLASS, AND CONCRETE PRODUCTS (Continued)							
GROUP 325 - STRUCTURAL CLAY PRODUCTS							
Brick Manufacturing - 3251							
3-05-003-01	Raw Material Drying	70.0					Tons raw material
3-05-003-02	Raw Material Grinding	76.0	0.00				Tons raw material
3-05-003-03	Storage of Raw Materials	34.0	0.00	0.00	0.00	0.00	Tons of material stored
3-05-003-07	Process Calcining						Tons raw material
3-05-003-08	Screening		0.00	0.00	0.00	0.00	Tons raw material
3-05-003-09	Process Blending and Mixing		0.00	0.00	0.00	0.00	Tons raw material
3-05-003-11	Curing and Firing: Gas-Fired Tunnel Kilns	0.05	0.00	0.15	0.02	0.04	Tons produced
3-05-003-12	Curing and Firing: Oil-Fired Tunnel Kilns	0.60	4.00 S	1.10	0.10	0.00	Tons brick produced
3-05-003-13	Curing and Firing: Coal-Fired Tunnel Kilns	1.00 A	7.20 S	0.90	0.60	1.90	Tons produced
3-05-003-14	Curing and Firing: Gas-Fired Periodic Kilns	0.11	0.00	0.47	0.04	0.11	Tons produced
3-05-003-15	Curing and Firing: Oil-Fired Periodic Kilns	0.90	5.90 S	1.70	0.10	0.00	Tons produced
3-05-003-16	Curing and Firing: Coal-Fired Periodic Kilns	1.60 A	12.0 S	1.40	0.90	3.20	Tons produced
Castable Refractory - 3255							
3-05-005-01	Raw Material Dryer	30.0					Tons feed material
3-05-005-02	Raw Material Crushing/ Processing	120.0	0.00	0.00	0.00	0.00	Tons feed material
3-05-005-03	Electric Arc Melt	50.0					Tons feed material
3-05-005-04	Curing Oven	0.20					Tons feed material
3-05-005-05	Molding and Shakeout	25.0					Tons feed material
3-05-005-99	Other/Not Classified (Specify in Comments)						Tons feed mat· ial
GROUP 326 - POTTERY AND RELATED PRODUCTS							
Ceramic Clay Manufacturing - 3261							
3-05-008-01	Drying	70.0					Tons input to process
3-05-008-02	Grinding	76.0					Tons input to process
3-05-009-03	Storage	34.0					Tons input to process
3-05-009-99	Other/Not Classified (Specify in Comments)						Tons produced
Ceramic Electric Parts - 3264							
3-05-030-99	Not Classified (Specify in Comments)						Tons processed

'A' indicates the ash content of the fuel.
'S' is the weight percent sulfur in the fuel.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT: PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 32 - STONE, CLAY, GLASS, AND CONCRETE PRODUCTS (Continued)							
GROUP 327 - CONCRETE, GYPSUM AND PLASTER PRODUCTS							
Concrete Batching - 3271, 3272, 3273, 3275, 1771, 3292							
3-05-011-01	General	0.20					Cubic yards concrete produced
3-05-011-20	Asbest./Cement Pdts.	0.20	0.00	0.00	0.00	0.00	Tons produced
3-05-011-99	Other/Not Classified (Specify in Comments)						Tons produced
Lime Manufacture - 3274							
3-05-016-01	Primary Crushing	0.50	0.00	0.00	0.00	0.00	Tons processed
3-05-016-02	Secondary Crushing/Screening	1.50	0.00	0.00	0.00	0.00	Tons processed
3-05-016-03	Calcining - Vertical Kiln	8.00					Tons processed
3-05-016-04	Calcining - Rotary Kiln	340.0		3.00		2.00	Tons processed
3-05-016-05	Calcimatic Kiln	50.0		0.20			Tons processed
3-05-016-06	Fluidized Bed Kiln						Tons processed
3-05-016-07	Raw Material Transfer and Conveying		0.00	0.00	0.00	0.00	Tons processed
3-05-016-08	Raw Material Unloading		0.00	0.00	0.00	0.00	Tons processed
3-05-016-09	Hydrator (Atmospheric)	0.10	0.00	0.00	0.00	0.00	Tons hydrated lime produced
3-05-016-10	Raw Material Storage Piles		0.00	0.00	0.00	0.00	Tons processed
3-05-016-11	Product Cooler		0.00	0.00	0.00	0.00	Tons processed
3-05-016-12	Pressure Hydrator	2.00	0.00	0.00	0.00	0.00	Tons processed
3-06-016-13	Lime Silos		0.00	0.00	0.00	0.00	Tons processed
3-06-016-14	Packing/Shipping		0.00	0.00	0.00	0.00	Tons processed
3-06-016-15	Product Transfer and Conveying		0.00	0.00	0.00	0.00	Tons processed
3-06-016-16	Primary Screening		0.00	0.00	0.00	0.00	Tons processed
Gypsum Manufacture - 3275							
3-05-015-01	Raw Material Dryer	40.0					Tons throughput
3-05-015-02	Primary Grinder	1.00					Tons throughput
3-05-015-03	Calciner	90.0					Tons throughput
3-05-015-04	Conveying	0.70					Tons throughput
GROUP 329 - ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS							
Clay and Fly Ash Sintering (Low Density Aggregate Manufacture) - 3295							
3-05-009-01	Flyash	110.0					Tons finished product
3-05-009-02	Clay/Coke	55.0					Tons finished product
3-05-009-03	Natural Clay	24.0					Tons finished product
3-05-009-99	Other/Not Classified (Specify in Comments)						Tons finished product
Perlite Manufacture - 3295							
3-05-018-01	Vertical Furnace	21.0					Tons charged
3-05-018-99	Other/Not Classified (Specify in Comments)						Tons processed

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 32 - STONE, CLAY, GLASS, AND CONCRETE PRODUCTS (Continued)							
GROUP 329 - ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS							
Barium Ore Processing - 3295							
3-03-014-01	Ore Grinding			0.00			Tons processed
3-03-014-02	Reduction Kiln						Tons processed
3-03-014-03	Dryers/Calciners						Tons processed
3-03-014-99	Other/Not Classified (Specify in Comments)						Tons processed
Mineral Wool - 3296							
3-05-017-01	Cupola	22.0	0.02				Tons charged
3-05-017-02	Reverb Furnace	5.00	0.00				Tons charged
3-05-017-03	Blow Chamber	17.0	0.00				Tons charged
3-05-017-04	Curing Oven	4.00	0.00				Tons charged
3-05-017-05	Cooler	2.00	0.00				Tons charged
3-05-017-99	Other/Not Classified (Specify in Comments)						Tons processed
Other/Not Classified							
3-05-999-99	Specify in Comments						Tons products

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES							
GROUP 331 - BLAST FURNACES, STEELWORKS, AND ROLLING AND FINISHING MILLS							
Coke Manufacturing - 3312							
3-03-003-02	Oven Charging	1.50	0.02	0.03	2.50	0.60	Tons coal charged
3-03-003-03	Oven Pushing	0.60			0.20	0.07	Tons coal charged
3-03-003-04	Quenching	0.90					Tons coal charged
3-03-003-05	Coal Unloading	0.40					Tons coal charged
3-03-003-06	Oven Underfiring		4.00				Tons coal charged
3-03-003-07	Coal Crushing/Handling[1]	0.10		0.01	1.50	0.60	Tons coal charged
3-03-003-08	Oven/Door Leaks			0.00	0.00	0.00	Tons processed
3-03-003-09	Coal Conveying			0.00	0.00	0.00	Tons processed
3-03-003-10	Coal Crushing			0.00	0.00	0.00	Tons processed
3-03-003-11	Coal Screening			0.00	0.00	0.00	Tons processed
3-03-003-12	Coke Crushing/Screening/Handling						
Coke Manufacture: Beehives - 3312							
3-03-004-01	General	200.0			8.00	1.00	Tons coal charged
Iron Production - 3312							
3-03-008-01	Blast Furnace: Ore Charge	110.0	0.00	0.00	0.00	1,750.[2]	Tons iron produced
3-03-008-02	Blast Furnace: Agglomerates Charge	40.0	0.00	0.00	0.00	1,750.[2]	Tons iron produced
3-03-008-21	Unloading Ore, Pellets, Limestone Into Blast Furnace						Tons processed
3-03-008-22	Blast Furnace Raw Materials Stockpiles: Ore, Pellets, Limestone, Coke, Sinter						Tons processed
3-03-008-23	Blast Furnace Charge Materials Transfer/Handling						Tons processed
3-03-008-24	Blast Heating Stoves						Tons processed
3-03-008-25	Cast House						Tons processed
Blast Furnace Slag							
3-03-008-08	Slag Crushing and Sizing						Tons processed
3-03-008-09	Slag Removal and Dumping						Tons processed
Sintering							
3-03-008-11	Raw Materials Stockpiles, Coke Breeze, Limestone, Ore Fines						Tons produced
3-03-008-12	Raw Materials Transfer/Handling						Tons produced
3-03-008-13	Windbox	20.0				44.0	Tons produced
3-03-008-14	Sinter Discharge End	22.0					Tons produced
3-03-008-15	Sinter Breaker						Tons produced
3-03-008-16	Sinter Hot Screening						Tons produced
3-03-008-17	Sinter Cooler						Tons produced
3-03-008-18	Sinter Cold Screening						Tons produced
3-03-008-19	Sinter Processing (Combined Code Includes 15, 16, 17, and 18)						Tons produced

1 Codes 3-03-003-09, -10, and -11 represent individual operations within this source.

2 Represents total CO generated, report control equipment as 022 for CO Boiler or 060 for Process Gas Recovery to properly account for actual emissions.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES (Continued)							
GROUP 331 - BLAST FURNACES, STEELWORKS, AND ROLLING AND FINISHING MILLS							
Steel Production - 3312							
3-03-009-01	Open Hearth Furnace with Oxygen Lance	17.4					Tons produced
3-03-009-02	Open Hearth Furnace with No Oxygen Lance	8.30					Tons produced
3-03-009-04	Electric Arc Furnace with Oxygen Lance	11.0				18.0	Tons produced
3-03-009-05	Electric Arc Furnace with No Oxygen Lance	9.20				18.0	Tons produced
3-03-009-13	Basic Oxygen Furnace-Open Hood	51.0				139.0[1]	Tons produced
3-03-009-14	Basic Oxygen Furnace-Closed Hood	51.0				139.0[1]	Tons produced
3-03-009-15	Hot Metal (Iron) Transfer to Basic Oxygen Furnace (BOF)						Tons produced
3-03-009-16	Charging BOF						Tons produced
3-03-009-17	Tapping BOF						Tons produced
3-03-009-21	Teeming						Tons produced
3-03-009-22	Continuous Casting						Tons produced
3-03-009-23	Steel Furnace Slag Tapping and Dumping						Tons produced
3-03-009-24	Steel Furnace Slag Processing, Crushing/Sizing						Tons produced
Steel Rolling/Finishing							
3-03-009-11	Soaking Pits						Tons produced
3-03-009-31	Hot Rolling						Tons produced
3-03-009-12	Grinding						Tons produced
3-03-009-32	Scarfing	1.00					Tons produced
3-03-009-33	Reheat Furnaces						Tons produced
3-03-009-34	Heat Treating Furnaces, Annealing						Tons produced
3-03-009-10	Pickling						Tons produced
3-03-009-35	Cold Rolling						Tons produced
3-03-009-36	Coating (Tin, Zinc, Etc.)						Tons produced
3-03-009-99	Other/Not Classified (Specify in Comments)						Tons produced

[1] Represents total CO generated, report control device as 022 for CO Boiler or 023 for flaring to properly account for actual emissions.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT: PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES (Continued)							
GROUP 331 - BLAST FURNACES, STEELWORKS, AND ROLLING AND FINISHING MILLS							
Ferroalloy (Open Furnace) - 3313[1]							
3-03-006-01	50% FeSi - Electric Smelting Furnaces	200.0					Tons produced
3-03-006-02	75% FeSi - Electric Smelting Furnaces	315.0					Tons produced
3-03-006-03	90% FeSi - Electric Smelting Furnaces	565.0					Tons produced
3-03-006-04	Silicon Metal - Electric Smelting Furnaces	625.0					Tons produced
3-03-006-05	Siliconmanganese - Electric Smelting Furnaces	195.0					Tons produced
3-03-006-10	Ore Screening						Tons processed
3-03-006-11	Ore Dryer						Tons processed
3-03-006-13	Raw Materials Storage						Tons processed
3-03-006-14	Raw Materials Transfer						Tons processed
3-03-006-15	Ferromanganese - Blast Furnace						Tons produced
3-03-006-16	Ferrosilicon - Blast Furnace						Tons produced
3-03-006-17	Cast House						Tons produced
3-03-006-99	Other/Not Classified (Specify in Comments)						Tons produced
Ferroalloy (Semicovered Furnace) - 3313							
3-03-007-01	Ferromanganese - Electric Arc Furnace	45.0					Tons produced
3-03-007-02	Electric Arc Furnace (Other Alloys Specify in Comments)						Tons produced
3-03-007-03	Ferrochromium - Electric Arc Furnace						Tons produced
3-03-007-04	Ferrochromium Silicon - Electric Arc Furnace						Tons produced
GROUP 332 - IRON AND STEEL FOUNDRIES							
Gray Iron Foundries - 3321							
3-04-003-01	Cupola	17.0				145.0	Tons metal charged
3-04-003-02	Reverberatory Furnace	2.00				0.00	Tons metal charged
3-04-003-03	Electric Induction Furnace	1.50				0.00	Tons metal charged
3-04-003-04	Electric Arc Furnace					0.00	Tons metal charged
3-04-003-05	Annealing Operation						Tons processed
3-04-003-20	Pouring/Casting						Tons processed
3-04-003-31	Casting Shakeout						Tons processed
3-04-003-40	Grinding/Cleaning		0.00	0.00	0.00	0.00	Tons processed
3-04-003-50	Sand Grinding/Handling in Mold and Core Making						Tons handled
3-04-003-51	Core Ovens						Tons handled
3-04-003-60	Castings Finishing						Tons handled
3-04-003-99	Other/Not Classified (Specify in Comments)						Tons metal charged

[1] The sequence of the 3-03-006 SCC's is not intended to imply that the collateral activities (ore screening, ore dryer, raw materials storage, raw materials handling, and cast house) apply to specific furnace types.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES (Continued)							
GROUP 332 - IRON AND STEEL FOUNDRIES							
Malleable Iron - 3322							
3-04-009-01	Annealing						Tons metal charged
3-04-009-99	Other/Not Classified (Specify in Comments)						Tons metal charged
Steel Foundry - 3324, 3325							
3-04-007-01	Electric Arc Furnace	13.0		0.20			Tons processed
3-04-007-02	Open Hearth Furnace	11.0		0.01			Tons processed
3-04-007-03	Open Hearth Furnace with Oxygen Lance	10.0		0.00			Tons processed
3-04-007-04	Heat-Treating Furnace						Tons processed
3-04-007-05	Electric Induction Furnace	0.10	0.00	0.00	0.00	0.00	Tons processed
3-04-007-06	Sand Grinding/Handling in Mold and Core Making						Tons handled
3-04-007-07	Core Ovens						Tons processed
3-04-007-08	Pouring and Casting						Tons processed
3-04-007-09	Casting Shakeout						Tons processed
3-04-007-11	Cleaning						Tons processed
3-04-007-15	Finishing (Describe in Comments)						Tons processed
3-04-007-99	Other/Not Classified (Specify in Comments)						Tons processed
GROUP 333 - PRIMARY SMELTING AND REFINING OF NONFERROUS METALS							
Aluminum Ore: Electro-Reduction - 3334							
3-03-001-01	Prebaked Reduction Cell	81.3					Tons of molten aluminum produced
3-03-001-02	Horizontal Stud Soderberg Cell	98.4					Tons of molten aluminum produced
3-03-001-03	Vertical Stud Soderberg Cell	78.4					Tons of molten aluminum produced
3-03-001-04	Materials Handling	10.0					Tons of molten aluminum produced
3-03-001-05	Anode Baking Furnace	3.00					Tons of molten aluminum produced
3-03-001-06	Degassing		0.00	0.00	0.00	0.00	Tons of molten aluminum produced
3-03-001-07	Roof Vents						Tons of molten aluminum produced
Aluminum Hydroxide Calcining - 3334							
3-03-002-01	Overall Process	200.0					Tons of alumina produced

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES (Continued)							
GROUP 333 - PRIMARY SMELTING AND REFINING OF NONFERROUS METALS							
Primary Copper Smelters - 3331							
3-03-005-02	Multiple Hearth Roaster	45.0	410.0				Tons concentrated ore processed
3-03-005-03	Reverberatory Smelting Furnace		450.				Tons concentrated ore processed
3-03-005-04	Converter	42.0	540.0				Tons concentrated ore processed
3-03-005-05	Fire (Furnace) Refining	10.0	0.00				Tons concentrated ore processed
3-03-005-06	Ore Concentrate Dryer						Tons concentrated ore processed
3-03-005-07	Reverberatory Smelting Furnace with Ore Charging (w/o Roasting)	36.0	390.0	0.09			Tons concentrated ore processed
3-03-005-08	Refined Metal Finishing Operations						Tons concentrated ore processed
3-03-005-09	Fluidized-Bed Roaster	55.0	540.0				Tons concentrated ore processed
3-03-005-10	Electric Smelting Furnace		131.0				Tons concentrated ore processed
3-03-005-11	Electrolytic Refining						Tons concentrated ore processed
3-03-005-12	Flash Smelting						Tons concentrated ore processed
3-03-005-99	Other/Not Classified (Specify in Comments)						Tons concentrated ore processed
Lead Smelters - 3332							
3-03-010-11	Raw Material Unloading						Tons of lead product
3-03-010-12	Raw Material Storage Files						Tons of lead product
3-03-010-13	Raw Material Transfer						Tons of lead product
3-03-010-04	Ore Crushing	2.00					Tons of ore crushed
3-03-010-14	Sintering Charge Mixing						Tons of lead product
3-03-010-05	Materials Handling (Includes 11, 12, 13, 04, 14)	5.00					Tons of lead product
3-03-010-01	Sintering, Single Stream						Tons of concentrated ore
3-03-010-06	Sintering, Feed End						Tons of concentrated ore
3-03-010-07	Sintering, Discharge End						Tons of concentrated ore
3-03-010-15	Sinter Crushing/Screening						Tons of lead product
3-03-010-16	Sinter Transfer						Tons of lead product
3-03-010-17	Sinter Fines Return Handling						Tons of lead product
3-03-010-18	Blast Furnace Charging						Tons of lead product
3-03-010-02	Blast Furnace Operation	361.0	45.0				Tons of concentrated ore
3-03-010-19	Blast Furnace Tapping (Metal and Slag)						Tons of lead product
3-03-010-20	Blast Furnace Lead Pouring						Tons of lead product
3-03-010-21	Blast Furnace Slag Pouring						Tons of lead product

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES (Continued)							
GROUP 333 - PRIMARY SMELTING AND REFINING OF NONFERROUS METALS							
Lead Smelters - 3332 (Continued)							
3-03-010-08	Slag Fuming Furnace						Tons of lead product
3-03-010-09	Lead Drossing						Tons of lead product
3-03-010-24	Reverberatory or Kettle Softening						Tons of lead product
3-03-010-22	Lead Refining/Specify Operation in Comment						Tons of lead product
3-03-010-23	Lead Casting						Tons of lead product
3-03-010-03	Dross Reverberatory Furnace	20.0					Tons of concentrated ore
Zinc Smelting - 3333							
3-03-030-02	Multiple Hearth Roaster	120.0	1,100.		0.00		Tons processed
3-03-030-03	Sinter Strand	90.0					Tons processed
3-03-030-05	Vertical Retort/Electro-thermal Furnace	100.0					Tons processed
3-03-030-06	Electrolytic Processor	3.00					Tons processed
3-03-030-07	Flash Roaster						Tons processed
3-03-030-08	Fluid Bed Roaster						Tons processed
3-03-030-09	Raw Material Handling and Transfer		0.00	0.00	0.00	0.00	Tons processed
3-03-030-10	Sinter Breaking and Cooling		0.00	0.00	0.00	0.00	Tons processed
3-03-030-11	Zinc Casting		0.00	0.00	0.00	0.00	Tons processed
3-03-030-12	Raw Material Unloading		0.00	0.00	0.00	0.00	Tons processed
3-03-030-14	Crushing/Screening		0.00	0.00	0.00	0.00	Tons processed
3-03-030-15	Zinc Smelting		0.00	0.00	0.00	0.00	Tons processed
3-03-030-16	Alloying		0.00	0.00	0.00	0.00	Tons processed
Titanium Processing - 3339, 3369, 3356							
3-03-012-01	Chlorination		0.00	0.00	0.00		Tons product
3-03-012-99	Other/Not Classified (Specify in Comments)						Tons processed
Other Primary Metal Industries/Not Classified - 3339							
3-03-999-99	Not Classified (Specify in Comments)						Tons produced
GROUP 334 - SECONDARY SMELTING AND REFINING OF NONFERROUS METALS							
Secondary Aluminum - 3341, 3353, 3354, 3355, 3361, 3411, 3497							
3-04-001-01	Sweating Furnace	14.5					Tons produced
3-04-001-02	Smelting Furnace/Crucible	1.90					Tons metal produced
3-04-001-03	Smelting Furnace/Reverberatory	4.30					Tons metal produced
3-04-001-04	Fluxing (Chlorination)	1,000.	0.00	0.00	0.00	0.00	Tons of chlorine used
3-04-001-05	Fluxing (Flouridation)						Tons metal produced
3-04-001-06	Degassing		0.00	0.00	0.00	0.00	Tons metal produced
3-04-001-07	Hot Dross Processing		0.00	0.00	0.00	0.00	Tons metal produced
3-04-001-08	Crushing/Screening		0.00	0.00	0.00	0.00	Tons metal produced
3-04-001-09	Burning/Drying						Tons metal produced

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES (CONTINUED)							
GROUP 334 - SECONDARY SMELTING AND REFINING OF NONFERROUS METALS							
Secondary Aluminum - 3341, 3353, 3354, 3355, 3361, 3411, 3497							
3-04-001-10	Foil Rolling					0.00	Tons produced
3-04-001-11	Foil Converting					0.00	Tons produced
3-04-001-20	Can Manufacture					0.00	Tons produced
3-04-001-50	Roll/Draw Extruding					0.00	Tons produced
Secondary Copper Smelting and Alloying (Brass/Bronze Melt) - 3341, 3362							
Cupolas							
3-04-002-10	Charge w/Scrap Copper	0.0003					Tons of charge
3-04-002-11	Charge w/Insulated Copper Wire	230.0					Tons of charge
3-04-002-12	Charge w/Scrap Copper and Brass	70.0					Tons of charge
Reverberatory Furnace							
3-04-002-14	Charge w/Copper	5.10					Tons of charge
3-04-002-15	Charge w/Brass and Bronze	36.0					Tons of charge
Rotary Furnace							
3-04-002-17	Charge w/Brass and Bronze	300.0					Tons of charge
Crucible and Pot Furnaces							
3-04-002-19	Charge w/Brass and Bronze	21.0					Tons of charge
Electric Arc Furnace							
3-04-002-20	Charge w/Copper	5.00					Tons of charge
3-04-002-21	Charge w/Brass and Bronze	11.0					Tons of charge
Electric Induction Furnace							
3-04-002-23	Charge w/Copper	7.00					Tons of charge
3-04-002-24	Charge w/Brass and Bronze	20.00					Tons of charge
Other/Not Classified - Secondary Copper Smelting and Alloying							
3-04-002-99	Not Classified (Specify in Comments)						Tons produced
Secondary Zinc - 3341							
3-04-008-01	Retort Furnace	47.0					Tons produced
3-04-008-02	Horizontal Muffle Furnace	45.0					Tons produced
3-04-008-03	Pot Furnace	0.10					Tons produced
3-04-008-14	Kettle-Sweat Furnace (Clean Metallic Scrap)	0.00					Tons produced
3-04-008-24	Kettle-Sweat Furnace (General Metallic Scrap)	11.0					Tons produced
3-04-008-34	Kettle-Sweat Furnace (Residual Scrap)	25.0					Tons produced
3-04-008-05	Galvanizing Kettle	5.00					Tons produced
3-04-008-06	Calcining Kiln	89.0					Tons produced
3-04-008-07	Concentrate Dryer						Tons produced
3-04-008-18	Reverberatory Sweat Furnace (Clean Metallic Scrap)	0.00					Tons produced
3-04-008-28	Reverberatory Sweat Furnace (General Metallic Scrap)	13.0					Tons produced
3-04-008-38	Reverberatory Sweat Furnace (Residual Scrap)	32.0					Tons produced
3-04-008-99	Other/Not Classified (Specify in Comments)						Tons produced

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 33 - PRIMARY METAL INDUSTRIES (CONTINUED)							
GROUP 334 - SECONDARY SMELTING AND REFINING OF NONFERROUS METALS							
Secondary Lead Smelting - 3341, 3369							
3-04-004-01	Pot Furnace	0.8	0.00	0.00	0.00	0.00	Tons metal charged
3-04-004-02	Reverberatory Furnace	147.0	80.0	0.00	0.00	0.00	Tons metal charged
3-04-004-03	Blast Furnace	193.0	53.0	0.00	0.00	0.00	Tons metal charged
3-04-004-04	Rotary Reverberatory Furnace	70.0	0.00	0.00	0.00	0.00	Tons metal charged
3-04-004-05	Sweating						Tons metal charged
3-04-004-06	Pot Furnace Heater: Dist. Oil						1000 gallons oil burned
3-04-004-07	Pot Furnace Heater: Natural Gas						Million cubic feet burned
3-04-004-08	Barton Process Reactor		0.00	0.00	0.00	0.00	Tons processed
3-04-004-09	Casting		0.00	0.00	0.00	0.00	Tons metal charged
3-04-004-99	Other/Not Classified (Specify in Comments)						Tons processed
Magnesium - 3341							
3-04-006-01	Pot Furnace w/o Control	4.00					Tons processed
3-04-006-99	Other/Not Classified (Specify in Comments)						Tons processed
Nickel - 3341							
3-04-010-01	Flux Furnace						Tons processed
3-04-010-99	Other/Not Classified (Specify in Comments)						Tons processed
Miscellaneous Casting and Fabrication							
3-04-050-01	Not Classified (Specify in Comments)						Tons produced
Other/Not Classified - Secondary Smelting and Refining of Nonferrous Metals							
3-04-999-99	Not Classified (Specify in Comments)						Tons processed

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 34 - FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT[1]							
Electroplating Operations - 3471							
3-09-010-01	General - Entire Process						Square feet of product plated
Metallic Coating - 3479							
3-09-040-01	Lead Cable Coating						Tons processed
Other/Not Classified - Fabricated Metal Products, Except Machinery and Transportation Equipment							
3-09-999-99	Not Classified (Specify in Comments)						Tons processed

[1] For surface coating and degreasing operations, see Part I, SCC 4-02-XXX-XX and 4-01-XXX-XX.

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 36 - ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES[1]							
Furnace Electrode Manufacture - 3624							
3-04-020-01	Calcination						Tons processed
3-04-020-02	Mixing		0.00	0.00	0.00	0.00	Tons processed
3-04-020-03	Pitch Treating		0.00	0.00			Tons processed
3-04-020-04	Bake Furnaces						Tons processed
3-04-020-99	Other/Not Classified (Specify in Comments)						Tons processed
Lead Battery Manufacture - 3691							
3-04-005-01	Overall Process	0.90	0.00	0.00	0.00	0.00	Tons of batteries produced
3-04-005-02	Casting Furnace	0.04	0.00	0.00	0.00	0.00	Tons of batteries produced
3-04-005-03	Paste Mixer	0.21	0.00	0.00	0.00	0.00	Tons of batteries produced
3-04-005-04	Three Process Operation	0.64	0.00	0.00	0.00	0.00	Tons of batteries produced
3-04-005-99	Other/Not Classified (Specify in Comments)						Tons processed

[1] For surface coating and degreasing operations, see Part I, SCC 4-02-XXX-XX and 4-01-XXX-XX.

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 51 - WHOLESALE TRADE-NONDURABLE GOODS							
Gasoline Storage at Bulk Terminals - 5171, 4226[a,d]							
4-04-001-01	Gasoline RVP[1]13: Fixed Roof Breathing Loss[b] (67,000 bbl. tank)	0.00	0.00	0.00	109.5	0.00	1000 gallons storage capacity
4-04-001-02	Gasoline RVP10: Fixed Roof Breathing Loss (67,000 bbl. tank)	0.00	0.00	0.00	84.0	0.00	1000 gallons storage capacity
4-04-001-03	Gasoline RVP7: Fixed Roof Breathing Loss (67,000 bbl. tank)	0.00	0.00	0.00	58.4	0.00	1000 gallons storage capacity
4-04-001-04	Gasoline RVP13: Fixed Roof Breathing Loss (250,000 bbl. tank)	0.00	0.00	0.00	80.3	0.00	1000 gallons storage capacity
4-04-001-05	Gasoline RVP10: Fixed Roof Breathing Loss (250,000 bbl. tank)	0.00	0.00	0.00	62.1	0.00	1000 gallons storage capacity
4-04-001-06	Gasoline RVP7: Fixed Roof Breathing Loss (250,000 bbl. tank)	0.00	0.00	0.00	43.8	0.00	1000 gallons storage capacity
4-04-001-07	Gasoline RVP13: Fixed Roof Working Loss	0.00	0.00	0.00	10.0	0.00	1000 gallons throughput
4-04-001-08	Gasoline RVP10: Fixed Roof Working Loss	0.00	0.00	0.00	8.20	0.00	1000 gallons throughput
4-04-001-09	Gasoline RVP7: Fixed Roof Working Loss	0.00	0.00	0.00	5.70	0.00	1000 gallons throughput
4-04-001-10	Gasoline RVP13: Floating Roof[c] Standing Loss (67,000 bbl. tank)	0.00	0.00	0.00	16.1	0.00	1000 gallons storage capacity
4-04-001-11	Gasoline RVP10: Floating Roof Standing Loss (67,000 bbl. tank)	0.00	0.00	0.00	12.0	0.00	1000 gallons storage capacity
4-04-001-12	Gasoline RVP7: Floating Roof Standing Loss (67,000 bbl. tank)	0.00	0.00	0.00	8.40	0.00	1000 gallons storage capacity
4-04-001-13	Gasoline RVP13: Floating Roof Standing Loss (250,000 bbl. tank)	0.00	0.00	0.00	9.10	0.00	1000 gallons storage capacity
4-04-001-14	Gasoline RVP10: Floating Roof Standing Loss (250,000 bbl. tank)	0.00	0.00	0.00	6.90	0.00	1000 gallons storage capacity
4-04-001-15	Gasoline RVP7: Floating Roof Standing Loss (250,000 bbl. tank)	0.00	0.00	0.00	4.70	0.00	1000 gallons storage capacity
4-04-001-16	Gasoline RVP13/10/7, Floating Roof Withdrawal Loss (67,000 bbl. tank)	0.00	0.00	0.00	0.023	0.00	1000 gallons throughput
4-04-001-17	Gasoline RVP13/10/7, Floating Roof Withdrawal Loss (250,000 bbl. tank)	0.00	0.00	0.00	0.013	0.00	1000 gallons throughput
4-04-001-18	Gasoline RVP13: Variable Vapor Space Filling Loss (10,500 bbl. tank)	0.00	0.00	0.00	9.60	0.00	1000 gallons throughput
4-04-001-19	Gasoline RVP10: Variable Vapor Space Filling Loss (10,500 bbl. tank)	0.00	0.00	0.00	7.70	0.00	1000 gallons throughput
4-04-001-20	Gasoline RVP7: Variable Vapor Space Filling Loss (10,500 bbl. tank)	0.00	0.00	0.00	5.40	0.00	1000 gallons throughput

[a] Emission factors for the storage of other fuels at Bulk Terminals and Bulk Plants are contained under SIC Major Group 29.

[b] Emission factors for the Fixed Roof Storage Tanks Breathing Loss are for "new" tank conditions only. For "old" tank conditions, E. F. is increased by 13%.

[c] Similarly E. F. for Floating Roof Storage Tanks Standing Loss are for the "new" tank conditions only. For "old" tank conditions, E. F. is increased by 127%.

[d] Bulk terminals are defined as facilities with daily throughputs of 20,000 gallons or more.

[1] RVP = Reid Vapor Pressure is the absolute pressure of gasoline at 1000°F in psia as determined by ASTM method D323-72.

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 51 - WHOLESALE TRADE-NONDURABLE GOODS - CONTINUED							
Gasoline Storage at Bulk Plants - 5171, 4226[a,c]							
4-04-002-01	Gasoline RVP13: Fixed Roof Breathing Loss[b] (67,000 bbl. tank)	0.00	0.00	0.00	109.5	0.00	1000 gallons storage capacity
4-04-002-02	Gasoline RVP10: Fixed Roof Breathing Loss (67,000 bbl. tank)	0.00	0.00	0.00	84.0	0.00	1000 gallons storage capacity
4-04-002-03	Gasoline RVP7: Fixed Roof Breathing Loss (67,000 bbl. tank)	0.00	0.00	0.00	58.4	0.00	1000 gallons storage capacity
4-04-002-04	Gasoline RVP13: Fixed Roof Working Loss	0.00	0.00	0.00	10.0	0.00	1000 gallons throughput
4-04-002-05	Gasoline RVP10: Fixed Roof Working Loss	0.00	0.00	0.00	8.20	0.00	1000 gallons throughput
4-04-002-06	Gasoline RVP7: Fixed Roof Working Loss	0.00	0.00	0.00	5.70	0.00	1000 gallons throughput
4-04-002-07	Gasoline RVP13: Floating Roof[b] Standing Loss (67,000 bbl. tank)	0.00	0.00	0.00	16.1	0.00	1000 gallons storage capacity
4-04-002-08	Gasoline RVP10: Floating Roof Standing Loss (67,000 bbl. tank)	0.00	0.00	0.00	12.0	0.00	1000 gallons storage capacity
4-04-002-09	Gasoline RVP7: Floating Roof Standing Loss (67,000 bbl. tank)	0.00	0.00	0.00	8.40	0.00	1000 gallons storage capacity
4-04-002-10	Gasoline RVP13/10/7: Floating Roof Withdrawal Loss (67,000 bbl. tank)	0.00	0.00	0.00	0.023	0.00	1000 gallons throughput
4-04-002-11	Gasoline RVP13: Variable Vapor Space Filling Loss (10,500 bbl. tank)	0.00	0.00	0.00	9.60	0.00	1000 gallons throughput
4-04-002-12	Gasoline RVP10: Variable Vapor Space Filling Loss (10,500 bbl. tank)	0.00	0.00	0.00	7.70	0.00	1000 gallons throughput
4-04-002-13	Gasoline RVP7: Variable Vapor Space Filling Loss (10,500 bbl. tank)	0.00	0.00	0.00	5.40	0.00	1000 gallons throughput

[a] Emission factors for the storage of other fuels at Bulk Terminals and Bulk Plants are contained under SIC Major Group 29.

[b] Emission factors for the Fixed Roof Storage Tanks Breathing Loss are for 'new' tank conditions only. For 'old' tank conditions, E. F. is increased by 13%.

[c] Bulk plants are defined as facilities with daily throughputs of 20,000 gallons or less.

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 51 - WHOLESALE TRADE-NONDURABLE GOODS (CONTINUED)							
Transportation and Marketing of Petroleum Products							
Tank Cars and Trucks - 5161, 5171, 5172, 4582							
4-06-001-31	Gasoline-Submerged Loading-Normal Service	0.00	0.00	0.00	5.00	0.00	1000 gallons transferred
4-06-001-32	Crude Oil-Submerged Loading-Normal Service	0.00	0.00	0.00	3.00	0.00	1000 gallons transferred
4-06-001-33	Jet Naphtha (JP-4)-Submerged Loading-Normal Service	0.00	0.00	0.00	1.50	0.00	1000 gallons transferred
4-06-001-34	Jet Kerosene-Submerged Loading-Normal Service	0.00	0.00	0.00	0.02	0.00	1000 gallons transferred
4-06-001-35	Distillate Oil No. 2-Submerged Loading-Normal Service	0.00	0.00	0.00	0.01	0.00	1000 gallons transferred
4-06-001-36	Gasoline-Splash Loading-Normal Service	0.00	0.00	0.00	12.0	0.00	1000 gallons transferred
4-06-001-37	Crude oil-Splash Loading-Normal Service	0.00	0.00	0.00	7.00	0.00	1000 gallons transferred
4-06-001-38	Jet Naphtha-Splash Loading-Normal Service	0.00	0.00	0.00	4.00	0.00	1000 gallons transferred
4-06-001-39	Jet Kerosene-Splash Loading-Normal Service	0.00	0.00	0.00	0.04	0.00	1000 gallons transferred
4-06-001-40	Distillate oil No. 2-Splash Loading-Normal Service	0.00	0.00	0.00	0.03	0.00	1000 gallons transferred
4-06-001-41	Gasoline-Submerged Loading-Balance Service	0.00	0.00	0.00	8.00	0.00	1000 gallons transferred
4-06-001-42	Crude oil-Submerged Loading-Balance Service	0.00	0.00	0.00	5.00	0.00	1000 gallons transferred
4-06-001-43	Jet Naphtha-Submerged Loading-Balance	0.00	0.00	0.00	2.50	0.00	1000 gallons transferred
4-06-001-44	Gasoline-Splash Loading-Balance Service	0.00	0.00	0.00	8.00	0.00	1000 gallons transferred
4-06-001-45	Crude oil-Splash Loading-Balance Service	0.00	0.00	0.00	5.00	0.00	1000 gallons transferred
4-06-001-46	Jet Naphtha-Splash Loading Balance Service	0.00	0.00	0.00	2.50	0.00	1000 gallons transferred
4-06-001-47	Gasoline-Submerged Loading of a Clean Cargo Tank	0.00	0.00	0.00	4.00	0.00	1000 gallons transferred
4-06-001-48	Crude oil-Submerged Loading of a Clean Cargo Tank	0.00	0.00	0.00	2.50	0.00	1000 gallons transferred
4-06-001-49	Jet Naphtha (JP-4)-Submerged Loading of a Clean Cargo Tank	0.00	0.00	0.00	1.25	0.00	1000 gallons transferred
4-06-001-60	Jet Kerosene-Submerged Loading of a Clean Cargo Tank	0.00	0.00	0.00	0.02	0.00	1000 gallons transferred
4-06-001-61	Distillate Oil No. 2-Submerged Loading of a Clean Cargo Tank	0.00	0.00	0.00	0.008	0.00	1000 gallons transferred

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SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 51 - WHOLESALE TRADE-NONDURABLE GOODS - CONTINUED							
Marine Vessels - 4463							
4-06-002-31	Gasoline-Ship Loading-Cleaned and Vapor-free Tank	0.00	0.00	0.00	1.00	0.00	1000 gallons transferred
4-06-002-32	Gasoline-Ocean Barges Loading	0.00	0.00	0.00	1.30	0.00	1000 gallons transferred
4-06-002-33	Gasoline-Barges Loading-Cleaned and Vapor-free Tank	0.00	0.00	0.00	1.20	0.00	1000 gallons transferred
4-06-002-34	Gasoline-Ship Loading-Ballasted Tank	0.00	0.00	0.00	1.60	0.00	1000 gallons transferred
4-06-002-35	Gasoline-Ocean Barges Loading-Ballasted Tank	0.00	0.00	0.00	2.10	0.00	1000 gallons transferred
4-06-002-36	Gasoline-Ship Loading-Uncleaned Tank	0.00	0.00	0.00	2.40	0.00	1000 gallons transferred
4-06-002-37	Gasoline-Ocean Barges Loading-Uncleaned Tank	0.00	0.00	0.00	3.30	0.00	1000 gallons transferred
4-06-002-38	Gasoline-Barges Loading-Uncleaned Tank	0.00	0.00	0.00	4.00	0.00	1000 gallons transferred
4-06-002-39	Gasoline-Ship Loading-Average Tank Condition	0.00	0.00	0.00	1.40	0.00	1000 gallons transferred
4-06-002-40	Gasoline-Barges Loading-Average Tank Condition	0.00	0.00	0.00	4.00	0.00	1000 gallons transferred
4-06-002-41	Gasoline-Tanker-Ballasting	0.00	0.00	0.00	0.80	0.00	1000 gallons total cargo capacity
4-06-002-42	Gasoline-Transit	0.00	0.00	0.00	156.0[1]	0.00	1000 gallons transport
4-06-002-43	Crude Oil-Loading Tankers	0.00	0.00	0.00	0.70	0.00	1000 gallons transferred
4-06-002-44	Jet Fuel-Loading Tankers	0.00	0.00	0.00	0.50	0.00	1000 gallons transferred
4-06-002-45	Kerosene-Loading Tankers	0.00	0.00	0.00	0.005	0.00	1000 gallons transferred
4-06-002-46	Distillate Oil No. 2 Loading Tankers	0.00	0.00	0.00	0.005	0.00	1000 gallons transferred
4-06-002-48	Crude Oil-Loading Barges	0.00	0.00	0.00	1.70	0.00	1000 gallons transferred
4-06-002-49	Jet Fuel-Loading Barges	0.00	0.00	0.00	1.20	0.00	1000 gallons transferred
4-06-002-50	Jet Fuel-Loading Barges	0.00	0.00	0.00	0.013	0.00	1000 gallons transferred
4-06-002-51	Distillate Oil No. 2-Loading Tankers	0.00	0.00	0.00	0.012	0.00	1000 gallons transferred
4-06-002-53	Crude Oil-Tanker Ballasting	0.00	0.00	0.00	0.60	0.00	1000 gallons total cargo capacity
4-06-002-54	Crude Oil-Transit-Loss	0.00	0.00	0.00	52.0[1]	0.00	1000 gallons transported
4-06-002-55	Jet Fuel-Transit-Loss	0.00	0.00	0.00	36.4[1]	0.00	1000 gallons transported
4-06-002-56	Kerosene-Transit-Loss	0.00	0.00	0.00	1.00[1]	0.00	1000 gallons transported
4-06-002-57	Distillate Oil No. 2-Transit-Loss	0.00	0.00	0.00	0.26[1]	0.00	1000 gallons transported

[1] Expressed on annual basis (52 weeks/year).

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 51 - WHOLESALE TRADE-NONDURABLE GOODS (CONTINUED)							
Gasoline Retail Operations - 5541							
4-06-003-01	Splash Filling	0.00	0.00	0.00	11.5	0.00	1000 gallons throughput
4-06-003-02	Submerged Filling w/o Control	0.00	0.00	0.00	7.30	0.00	1000 gallons throughput
4-06-003-06	Balanced Submerged Filling	0.00	0.00	0.00	0.30	0.00	1000 gallons throughput
4-06-003-07	Underground Tank Breathing	0.00	0.00	0.00	1.00	0.00	1000 gallons throughput
Filling Vehicle Gas Tanks							
4-06-004-01	Vapor Loss: w/o Controls	0.00	0.00	0.00	9.00	0.00	1000 gallons transferred
4-06-004-02	Liquid Spill Loss: w/o Controls	0.00	0.00	0.00	0.70	0.00	1000 gallons transferred
4-06-004-03	Vapor Loss: w/Controls	0.00	0.00	0.00	0.90	0.00	1000 gallons transferred

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT PART	SO_x	NO_x	HC	CO	UNITS
MAJOR GROUP 51 - WHOLESALE TRADE-NONDURABLE GOODS (CONTINUED)							
Feed and Grain Terminal Elevators - 5153, 4221, 4463							
3-02-005-03	Cleaning	3.00	0.00	0.00	0.00	0.00	Tons grain processed[1]
3-02-005-04	Drying	1.10	0.00	0.00	0.00	0.00	Tons grain processed
3-02-005-05	Unloading (Receiving)	1.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-005-06	Loading (Shipping)	0.30	0.00	0.00	0.00	0.00	Tons grain processed
3-02-005-07	Removal From Bins (Tunnel Belt)	1.40	0.00	0.00	0.00	0.00	Tons grain processed
3-02-005-08	Elevator Legs (Headhouse)	1.50	0.00	0.00	0.00	0.00	Tons grain processed
3-02-005-09	Tripper (Gallery Belt)	1.00	0.00	0.00	0.00	0.00	Tons grain processed
Feed and Grain Country Elevators - 5153, 4221							
3-02-006-03	Cleaning	3.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-006-04	Drying	0.70	0.00	0.00	0.00	0.00	Tons grain processed
3-02-006-05	Unloading	0.60	0.00	0.00	0.00	0.00	Tons grain processed
3-02-006-06	Loading	0.30	0.00	0.00	0.00	0.00	Tons grain processed
3-02-006-07	Removal From Bins	1.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-006-08	Elevator Legs	1.50	0.00	0.00	0.00	0.00	Tons grain processed
Export Grain Elevators - 4463, 4221							
3-02-031-03	Cleaning	3.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-031-04	Drying	1.10	0.00	0.00	0.00	0.00	Tons grain processed
3-02-031-05	Unloading	1.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-031-06	Loading	1.00	0.00	0.00	0.00	0.00	Tons grain processed
3-02-031-07	Removal From Bins (Tunnel Belt)	1.40	0.00	0.00	0.00	0.00	Tons grain processed
3-02-031-08	Elevator Legs	1.50	0.00	0.00	0.00	0.00	Tons grain processed
3-02-031-09	Tripper (Gallery Belt)	1.00	0.00	0.00	0.00	0.00	Tons grain processed

[1] Units refer to amount of grain processed through each operation. If only the total amount of grain received or shipped is known, see AP-42, Table 6.4-2 for typical ratios of tons processed to tons shipped or received.

NATIONAL EMISSION DATA SYSTEM

SOURCE CLASSIFICATION CODES AND EMISSION FACTOR LISTING

SCC	PROCESS	POUNDS EMITTED PER UNIT					UNITS
		PART	SO_x	NO_x	HC	CO	
MAJOR GROUP 72 - PERSONAL SERVICES							
Dry Cleaning - 7216							
4-01-001-03	Perchloroethylene	0.00	0.00	0.00	2000.	0.00	Tons solvent consumed
4-01-001-04	Stoddard	0.00	0.00	0.00	2000.	0.00	Tons solvent consumed
4-01-001-05	Trichlorotrifluoroethane (Freon)	0.00	0.00	0.00	2000.	0.00	Tons solvent consumed